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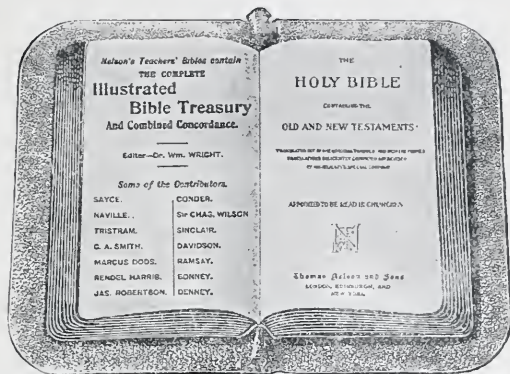
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7

AUGUST 1899.

1	Su
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3	Th
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5	S
6	S
7	M
8	Tu
9	W
10	Th
11	F
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14	M
15	Tu
16	W
17	Th
18	F
19	S
20	S
21	M
22	Tu
23	W
24	Th
25	F
26	S
27	S
28	M
29	Tu
30	W
31	Th

SEPTEMBER 1899.

1	F
2	S
3	S
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8	F
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14	Th
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16	S
17	S
18	M
19	Tu
20	W
21	Th
22	F
23	S
24	S
25	M
26	Tu
27	W
28	Th
29	F

Names of Candidates for Bursaries in the gift of the Merchants' House, for Hutchesons' Educational Trust Bursaries, for Glasgow City Educational Endowments Bursaries, for Highland Society Bursaries, for James Laing Bursaries, for Marshall Bursaries, for William Whyte Bursary, and for Hannay Bursary to be given in as directed at p. 337. Names of Candidates for Ferguson Scholarships to be given in before this day.

Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, and Names of Competitors for Bursaries, to be given in to Assistant-Clerk (Matriculation Office).

Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office).

Names of Candidates for Degrees in Law and Arts, and for Scholarships, etc., to be given in to Assistant-Clerk (Matriculation Office).

Preliminary Examinations in Arts, Science, and Medicine begin. (See p. 166.) Competition for Bursaries begins.

Last day for Professors sending in Names of Assistants to Secretary of University Court.

Degree Examinations—Astronomy, Geology.

OCTOBER 1899.

1	S	
2	M	<div> <div> <div>Theses for M.D. given in. Names of Candidates for Examination for M.D. (New Regulations) to be given in.</div> <div>Degree Examinations—Zoology, Botany, Chemistry, Materia Medica, Engineering Laboratory, Philosophy of Law, Private International Law.</div> </div> <div> <div>Competition for the Rainy and Lorimer Medical Bursaries.</div> </div> </div>
3	Tu	<div> <div>Degree Examinations—Physics, Anatomy, Physiology, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Public Law, Education, French.</div> </div>
4	W	<div> <div>Degree Examinations—Medical Jurisprudence and Public Health, Pathology, Civil Engineering, Civil (Roman) Law, Constitutional Law, German, Political Economy.</div> </div>
5	Th	<div> <div>Degree Examinations—History, French, Conveyancing, Civil Engineering, Medical Jurisprudence.</div> <div>Meeting of University Court. Appointment of University Assistants, and of Preliminary Examiners and Members of Joint Board for next year. Appointment of Committees and of Representatives at Charitable and other Boards.</div> </div>
6	F	Degree Examinations in Mathematics, etc. (See pp. 181, 194.)
7	S	<div> <div>Additional Examination in Mathematics for Bursaries.</div> <div>Examination for Arnott Prizes at 2 P.M.</div> </div>
8	S	
9	M	
10	Tu	
11	W	
12	Th	<div> <div>Meeting of Senate—Election of Senate Members of Library and other Committees.</div> <div>Meeting of Classical Committee of Joint Board.</div> </div>
13	F	Meeting of Joint Board.

OCTOBER 1899.

14	S	Meeting of Joint Board.
15	S	
16	M	
17	Tu	
18	W	{ Matriculation begins. Names of Candidates for Degree of B.D. and for Bursaries, etc., in Theology to be given in to Assistant-Clerk (Matriculation Office).
19	Th	{ Results of Bursary Competition declared. Classes in Faculties of Arts, Science, Medicine, and Law meet.
20	F	
21	S	
22	S	
23	M	
24	Tu	Examinations for B.D., and for Bursaries in Theology, 1st day. (See p.227.)
25	W	{ Do. do., 2nd day. (Last Wednesday.) Meeting of General Council.
26	Th	Classes in Faculty of Theology meet.
27	F	
28	S	Election of Rector.
29	S	
30	M	
31	Tu	{ Last day for receiving Tradesmen's and other Accounts for preceding half-year. Last day for receiving Professors' Accounts for Class Expenses for trans- mission to University Court. Last day for giving in University Prize Essays.

NOVEMBER 1899.

1	W	
2	Th	{ Meeting of Senate. Graduation. Representatives at Charitable and { other Boards elected.
3	F	
4	S	
5	S	
6	M	
7	Tu	
8	W	
9	Th	Meeting of University Court.
10	F	Matriculation ends.
11	S	
12	S	
13	M	
14	Tu	
15	W	
16	Th	
17	F	
18	S	
19	S	
20	M	
21	Tu	

NOVEMBER 1899.

22	W
23	Th
24	F
25	S
26	S
27	M
28	Tu
29	W
30	Th

DECEMBER 1899.

1	F	
2	S	
3	S	
4	M	
5	Tu	
6	W	
7	Th	Meeting of Senate. Vacancies in Bursaries ascertained.
8	F	
9	S	
10	S	
11	M	
12	Tu	
13	W	
14	Th	Meeting of the University Court.
15	F	
16	S	Payment of Tradesmen's Accounts.
17	S	
18	M	
19	Tu	
20	W	
21	Th	
22	F	
23	S	
24	S	
25	M	Christmas Holidays commence.
26	Tu	
27	W	
28	Th	
29	F	
30	S	
31	S	

JANUARY 1900.

1	M	
2	Tu	
3	W	
4	Th	
5	F	
6	S	
7	S	
8	M	
9	Tu	First day on which the Classes meet after the Christmas Holidays.
10	W	
11	Th	(Second Thursday.) Meeting of University Court.
12	F	Last day for receiving Accounts for transmission to Court.
13	S	Applications for Higher Degrees in Arts and Science (D.Litt., D.Phil., and D.Sc.) to be sent in to Clerk of Senate.
14	S	
15	M	
16	Tu	
17	W	
18	Th	Meeting of Senate. Intimation from the several Faculties of the Election of Deans. Appointment of Boards of Studies. Vacant Bursaries filled up.
19	F	
20	S	
21	S	
22	M	
23	Tu	
24	W	
25	Th	
26	F	
27	S	
28	S	
29	M	Holiday (Monday after last Friday).
30	Tu	Holiday (for Candlemas).
31	W	

FEBRUARY 1900.

1	Th	(Theses for M.D. sent in.
2	F	(Meeting of Senate. Reports of Committees on Honorary Degrees.
3	S	
4	S	
5	M	
6	Tu	
7	W	
8	Th	((Second Thursday.) Meeting of University Court. Arrangements for Summer Session.
9	F	
10	S	
11	S	
12	M	
13	Tu	
14	W	
15	Th	
16	F	
17	S	
18	S	
19	M	
20	Tu	
21	W	
22	Th	
23	F	
24	S	
25	S	
26	M	Holiday (Monday after last Friday).
27	Tu	
28	W	

MARCH 1900.

1	Th	{ Meeting of Senate. Schemes of Courses in Arts, Science, and Medicine to be sent by Professors and Lecturers to Conveners of Boards of Studies.		
2	F	{ Reports on Prize Essays. Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, to be given in to Assistant-Clerk (Matriculation Office).		
3	S			
4	S			
5	M			
6	Tu	{ Names of Candidates for Degrees in Arts and Law to be given in to Assistant-Clerk (Matriculation Office).		
7	W			
8	Th	{ Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office). Meeting of University Court. Appoint Member of Committee of Millport Marine Station.		
9	F			
10	S			
11	S			
12	M			
13	Tu			
14	W			
15	Th	{ Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed. Appointment to International Exhibition Scholarship.		
16	F			
17	S			
18	S			
19	M			
20	Tu			
21	W			
22	Th			
23	F	{ Winter Classes in Faculty of Medicine, Law, and Theology close. Names of Candidates for Degree of B.D. to be given in to Assistant-Clerk (Matriculation Office). Preliminary Examinations in Arts, Science, and Medicine begin. (See p. 161.)		
24	S	Degree Examinations—Astronomy, Geology.		
25	S			
26	M	Do.	do.	Zoology, Botany, Chemistry, Materia Medica, Engineering Laboratory, Philosophy of Law, Private International Law.
27	Tu	Do.	do.	Physics, Anatomy, Physiology, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Public Law, French.
28	W	Do.	do.	Medical Jurisprudence and Public Health, Pathology, Civil Engineering, Civil (Roman) Law, Constitutional Law, German, Political Economy.
29	Th	{ Meeting of Senate. Degree Examinations—Education, Hebrew (Arts), Civil Engineering, Divinity, Textual Criticism, Conveyancing, Medical Jurisprudence, French. Do. do. Church History, Hermeneutics, Mercantile Law, History, German.		
30	F	{ Last day for receiving Professors' Accounts of Class Expenses, Tradesmen's, Forty-five shilling, and other Accounts for transmission to Court.		
31	S	{ Degree Examinations in remaining Arts Subjects and Snell Exhibition begin. (See p. 181.)		

APRIL 1900.

1	S	
2	M	
3	Tu	
4	W	(First Wednesday.) Meeting of General Council.
5	Th	{ Meeting of Senate. Last day for returning Books to Library. Meeting of Classical Committee of Joint Board.
6	F	Meeting of Joint Board.
7	S	Meeting of Joint Board.
8	S	
9	M	
10	Tu	
11	W	
12	Th	Meeting of University Court.
13	F	
14	S	
15	S	
16	M	
17	Tu	{ Library re-opened. Graduation in all the Faculties. Honorary Graduation. Distribution of University Prizes.
18	W	Meeting of Senate
19	Th	
20	F	

APRIL 1900.

21	S	
22	S	
23	M	
24	Tu	Summer Classes in Arts, Science, Medicine, and Law open.
25	W	
26	Th	
27	F	
28	S	
29	S	
30	M	

MAY 1900.

1	Tu	
2	W	
3	Th	Meeting of University Court.
4	F	
5	S	
6	S	
7	M	
8	Tu	
9	W	
10	Th	Payment of Tradesmen's and other Accounts. Meeting of Faculty of Medicine.
11	F	
12	S	
13	S	
14	M	
15	Tu	Names of Candidates for Final Professional Examination in Medicine to be given in to Assistant-Clerk (Matriculation Office).
16	W	
17	Th	
18	F	
19	S	
20	S	
21	M	
22	Tu	
23	W	
24	Th	
25	F	
26	S	
27	S	
28	M	
29	Tu	
30	W	
31	Th	

JUNE 1900.

1	F	Theses for M. D. given in.
2	S	
3	S	
4	M	Degree Examinations—Practice of Medicine, Surgery.
5	Tu	Do. Midwifery; Clinical Examinations begin.
6	W	
7	Th	
8	F	
9	S	
10	S	
11	M	
12	Tu	
13	W	
14	Th	Meeting of University Court. Appointment of Lecturers.
15	F	
16	S	
17	S	
18	M	
19	Tu	
20	W	
21	Th	
22	F	
23	S	
24	S	
25	M	
26	Tu	
27	W	
28	Th	
29	F	
30	S	

JULY 1900.

1	S	
2	M	Last day for receiving accounts for transmission to Court.
3	Tu	
4	W	
5	Th	
6	F	
7	S	
8	S	
9	M	
10	Tu	
11	W	
12	Th	Meeting of University Court
13	F	
14	S	
15	S	
16	M	
17	Tu	
18	W	
19	Th	Meeting of Senate. Graduation in Medicine.
20	F	
21	S	
22	S	
23	M	
24	Tu	
25	W	
26	Th	
27	F	
28	S	
29	S	
30	M	
31	Tu	

UNIVERSITY OFFICERS.

	Elected.	Electors.
<i>Chancellor</i> —THE RIGHT HON. THE EARL OF STAIR, K.T., LL.D., - - - -	1884	General Council
<i>Vice-Chancellor</i> —ROBERT HERBERT STORY, D.D., LL.D., - - - -	1898	Chancellor.
<i>Rector</i> —THE RIGHT HON. JOSEPH CHAMBERLAIN, M.P., LL.D., - - - -	1896	{ Matriculated Students.
<i>Principal</i> —ROBERT HERBERT STORY, D.D., LL.D.,	1898	Crown.
<i>Dean of Faculties</i> —W. P. DICKSON, D.D., LL.D., - - - -	1896	Senate.
<i>Parliamentary Representative</i> —THE RIGHT HON. JAMES A. CAMPBELL, LL.D., - -	1880	General Council

University Court.

THE RECTOR, <i>ex officio</i> .	THE PRINCIPAL, <i>ex officio</i> .
THE LORD PROVOST OF GLASGOW, <i>ex officio</i> .	
	Elected. Electors.
SIR JAMES KING, BART., LL.D., -	1887 Chancellor.
DAVID MURRAY, LL.D., -	1896 Rector.
JAMES COLQUHOUN, LL.D., -	1890 { Lord Provost, Magistrates, and Town Council of Glasgow.
D. C. M'VAIL, M.B., -	1895 {
HECTOR C. CAMERON, M.D., -	1897 {
SIR JOHN N. CUTHBERTSON, LL.D.,	1897 { General Council.
SIR JAMES BELL, BART., -	1899 {
SIR W. T. GAIRDNER, K.C.B.,	{ Senate.
M.D., LL.D., -	
SHERIFF BERRY, LL.D., -	
PROFESSOR STEWART, D.D., -	
PROFESSOR ADAMSON, LL.D., -	1898

Senatus Academicus.¹

PRESIDENT, - - -	THE PRINCIPAL, - - -	1898
PROFESSORS.		
	CHAIRS.	Appointed
William Hastie, D.D., - - -	<i>Divinity</i> , - - -	1895
Lord Kelvin, G.C.V.O., F.R.S., - -	<i>Natural Philosophy</i> ,	1846

¹ See note at foot of next page.

PROFESSORS— <i>Continued.</i>				CHAIRS.	Appointed
Sir William T. Gairdner, K.C.B., M.D., } LL.D., F.R.S., - - - }				<i>Practice of Medicine,</i>	1862
George G. Ramsay, LL.D., - - -				<i>Humanity,</i> - -	1863
John Young, M.D., - - -				<i>Natural History,</i> -	1866
William Stewart, D.D., - - -				<i>Biblical Criticism,</i> -	1873
George Buchanan, M.A., M.D., LL.D.,				<i>Clinical Surgery,</i> -	1874
T. McCall Anderson, M.D., - - -				<i>Clinical Medicine,</i> -	1874
John Ferguson, M.A., LL.D., F.S.A., -				<i>Chemistry,</i> - -	1874
John Gray McKendrick, M.D., LL.D., } F.R.S., - - - }				<i>Physiology,</i> - -	1876
James Robertson, D.D., - - -				{ <i>Hebrew and Semitic</i> <i>Languages,</i> - }	1877
John Cleland, M.D., LL.D., D.Sc., F.R.S.,				<i>Anatomy,</i> - -	1877
William Jack, LL.D., - - -				<i>Mathematics,</i> - -	1879
Frederick O. Bower, Sc.D., F.R.S., -				<i>Botany,</i> - - -	1885
Alexander Moody Stuart, LL.D., -				<i>Law,</i> - - -	1887
Andrew Cecil Bradley, M.A., LL.D., -				{ <i>English Language</i> <i>and Literature,</i> }	1889
Archibald Barr, D.Sc., - - -				{ <i>Civil Engineering</i> <i>and Mechanics,</i> }	1889
James Moir, - - - - -				<i>Conveyancing,</i> - -	1889
John Harvard Biles, - - - - -				{ <i>Naval Architecture,</i> <i>including Marine</i> <i>Engineering,</i> }	1891
William Macewen, M.D., LL.D., F.R.S.,				<i>Surgery,</i> - - -	1892
Ludwig Becker, Ph.D., - - -				<i>Astronomy,</i> - -	1893
Murdoch Cameron, M.D., - - -				<i>Midwifery,</i> - -	1894
Henry Jones, LL.D., - - -				<i>Moral Philosophy,</i> -	1894
Richard Lodge, M.A., - - -				<i>History,</i> - - -	1894
Robert Adamson, LL.D., - - -				<i>Logic and Rhetoric,</i> -	1895
William Smart, D.Phil., LL.D., - -				<i>Political Economy,</i> -	1896
Ralph Stockman, M.D., - - -				<i>Materia Medica,</i> -	1897
John Glaister, M.D., - - -				<i>Forensic Medicine,</i> -	1898
James Cooper, D.D., - - -				<i>Church History,</i> -	1898
Robert Muir, M.D., - - -				<i>Pathology,</i> - -	1899
- - - - -				<i>Greek,</i> - - -	- - -

Note.—"The precedence of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation, 1727.*

Deans of the several Faculties.

<i>Arts</i> , - - - - -	Professor Jack.
<i>Science</i> , - - - - -	Professor Young.
<i>Medicine</i> , - - - - -	Professor Cleland.
<i>Law</i> , - - - - -	Professor Moir.
<i>Theology</i> , - - - - -	Professor Stewart.

Lecturers.

John Young, M.D., - - - -	<i>Honyman Gillespie Lecturer.</i>
Thomas Reid, M.D., LL.D., - -	<i>Waltonian Lecturer.</i>
David Yellowlees, M.D., LL.D., -	<i>Insanity.</i>
Magnus Maclean, M.A., D.Sc., F.R.S.E.,	<i>Physics.</i>
Thomas Barr, M.D., - - - -	<i>Diseases of the Ear.</i>
J. Walker Downie, M.B., - -	{ <i>Diseases of the Throat and</i> <i>Nose.</i>
James F. Gemmill, M.A., M.B., -	<i>Embryology.</i>
Wm. Galbraith Miller, LL.B., -	{ <i>Public International Law ;</i> <i>International Private Law ;</i> <i>and General Jurisprudence.</i>
Wm. S. McKechnie, LL.B., D.Phil., -	{ <i>Constitutional Law and</i> <i>History.</i>
James M. Irvine, B.Sc., LL.B., -	<i>Civil Law.</i>
James Mackenzie, - - - -	<i>Mercantile Law.</i>
John Adams, M.A., B.Sc., - -	<i>Education.</i>
Charles Martin, M.A. (Paris), -	{ <i>French Language and</i> <i>Literature.</i>
Alexander Tille, Ph.D., - -	{ <i>German Language and</i> <i>Literature.</i>
Michael Foster, M.D., LL.D., -	{ <i>Natural Theology (Gifford</i> <i>Foundation).</i>
* A. A. Jack, M.A., LL.M., -	{ <i>English Language and</i> <i>Literature.</i>
* Norman D. Smith, M.A., -	<i>Logic.</i>
* Robert A. Duff, M.A., - -	<i>Moral Philosophy.</i>
* James Blyth, M.A., F.R.S.E., -	<i>Natural Philosophy.</i>
* Thomas Gray, B.Sc., - -	<i>Chemistry.</i>
* Thomas H. Bryce, M.A., M.B., -	<i>Anatomy.</i>

* Charles Workman, M.D.,	-	-	<i>Pathology.</i>
* J. H. Pringle, F.R.C.S.,	-	-	<i>Surgey.</i>
* William MacLennan, M.B., C.M.,	-	-	<i>Materia Medica.</i>
* A. M. Ramsay, M.D.,	-	-	<i>Diseases of the Eye.</i>
W. R. Lang, D.Sc., F.C.S.,	-	-	<i>Organic Chemistry.</i>
Magnus Maclean, D.Sc.,	-	-	<i>Electricity—Pure & Applied.</i>
J. D. Cormack, B.Sc.,	-	-	<i>Electrical Engineering.</i>
W. W. M'Kechnie, M.A.,	-	-	<i>Humanity.</i>
George Macdonald, M.A.,	-	-	} <i>Greek.</i>
Robert D. Bell, M.A.,	-	-	
Horatio S. Carslaw, M.A., D.Sc.,	-	-	} <i>Mathematics.</i>
William E. Philip, M.A.,	-	-	

Boards of Studies.

In Arts. *Language and Literature.*—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Robertson, Bradley, and Murray, Dr. Tille, Messrs. George Macdonald, Charles Martin, and A. A. Jack.—Professor Bradley, *Convener*.

Mental Philosophy.—The Principal, the Dean of the Faculty of Arts, Professors Murray, Jones, Adamson, and Smart, Messrs. W. G. Miller, R. A. Duff, and Norman D. Smith.—Professor Jones, *Convener*.

Science.—The Principal, the Dean of the Faculty of Arts, Professors Lord Kelvin, Young, Ferguson, Bower, and Becker, Messrs. Blyth and Gray.—Professor Jack, *Convener*.

History and Law.—The Principal, the Dean of the Faculty of Arts, Professors Bradley and Lodge, Dr. M'Kechnie, Messrs. Irvine and W. G. Miller.—Professor Lodge, *Convener*.

English (Language, Literature, and British History).—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Murray, Bradley, and Lodge, and Dr. M'Kechnie.—Professor Bradley, *Convener*.

Economic Science.—The Principal, the Dean of the Faculty of Arts, Professors Jones, Lodge, and Smart, Dr. M'Kechnie, and Messrs. W. G. Miller and Irvine.—Professor Lodge, *Convener*.

In Science.—Professors Lord Kelvin, Young, Ferguson, M'Kendrick, Cleland, Jack, Bower, Barr, Biles, and Becker, Dr. Magnus Maclean, Dr. W. R. Lang, and Mr. John D. Cormack.—Professor Young, *Convener*.

In Medicine.—Professors Sir William T. Gairdner, Young, Buchanan, Anderson, Ferguson, M'Kendrick, Cleland, Bower, Macewen, Cameron, Stockman, and Glaister, Drs. Maclean, Reid, Yellowlees, Thomas Barr, Downie, Workman, A. M. Ramsay, Bryce, Pringle, Maclellan, Messrs. Blyth and Gray—the Dean of the Faculty of Medicine, *Convener*.

University Assistants or Demonstrators.*

<i>English Language and Literature,</i>	- - - - }	David H. Crawford, M.A.
<i>Humanity,</i>	- - - - }	W. W. M'Kechnie, M.A. Daniel Rankin, B.A.
<i>Greek,</i>	- - - - }	George Macdonald, M.A. Robert D. Bell, M.A.
<i>Hebrew and Semitic Languages,</i>		Thomas H. Weir, B.D.
<i>Natural Philosophy,</i>	- - - }	Magnus Maclean, M.A., D.Sc., F.R.S.E. Alexander Galt, D.Sc., F.R.S.E.
Arnett and Thomson Demonstrator in <i>Experimental Physics,</i>	- - - }	James Thomson Bottomley, M.A., D.Sc., F.R.S.
<i>Mathematics,</i>	- - - }	Horatio S. Carslaw, M.A., D.Sc. William E. Philip, M.A.
<i>Civil Engineering and Mechanics,</i>	- - - }	Harry Bamford, M.Sc. John D. Cormack, B.Sc.
<i>Logic,</i>	- - - -	Norman D. Smith, M.A.
<i>Moral Philosophy,</i>	- - -	Robert A. Duff, M.A.
<i>Naval Architecture,</i>	- - -	Herbert C. Sadler, B.Sc.
<i>Practice of Medicine,</i>	- - -	James Carslaw, M.A., M.B., C.M. Alexander Macphail, M.B., C.M.
<i>Anatomy,</i>	- - - }	John Morton, M.B., C.M. Archibald N. M'Lellan, M.B., C.M. James F. Gemmill, M.A., M.B., C.M.

* The Assistants and Demonstrators in this list were for 1898-99. Those for 1899-1900 fall to be appointed before the beginning of the session.

<i>Surgery,</i>	-	-	-	-	Archibald Young, B.Sc., M.B., C.M.
<i>Midwifery,</i>	-	-	-	-	John M. M. Kerr, M.B., C.M.
<i>Chemistry,</i>	-	-	-	-	{ William R. Lang, D.Sc., F.C.S. William C. Anderson, B.Sc., M.A. James Roberts, F.C.S.
<i>Botany,</i>	-	-	-	-	{ William H. Lang, B.Sc., M.B., C.M. D. T. Gwynne Vaughan, M.A.
<i>Natural History,</i>	-	-	-	-	James Rankin, B.Sc., M.B., C.M.
Baxter Demonstrator in					<i>Geology,</i> Alex. V. Lothian, M.A., B.Sc.
<i>Materia Medica,</i>	-	-	-	-	Francis J. Charteris, M.B., Ch.B.
<i>Physiology,</i>	-	-	-	-	{ William B. Brodie, M.B., C.M. (Muirhead Demonstrator). John H. Teacher, M.A., M.B., C.M.
<i>Pathology,</i>	-	-	-	-	{ Lewis R. Sutherland, M.B., C.M. Alexander R. Ferguson, M.B., C.M. Samuel Prior, M.B., C.M.
<i>Forensic Medicine,</i>	-	-	-	-	John Knight, M.B., C.M.
<i>Clinical Surgery</i> (Dr. Macewen),					Thomas Kay, M.B., C.M.
<i>Clinical Surgery</i> (Dr. Buchanan),	-	-	-	-	{ G. Burnside Buchanan, B.A. (Cantab.) M.B., C.M.
<i>Clinical Medicine</i> (Sir W. T. Gairdner),	-	-	-	-	{ James Carslaw, M.A., M.B., C.M. Robert B. Ness, M.A., M.B., C.M.
<i>Clinical Medicine</i> (Dr. Anderson),	-	-	-	-	{ James Hinshelwood, M.A., M.D. William R. Jack, B.Sc., M.D.

Examiners for Degrees.

In Divinity.—The Professors in the Faculty of Theology, assisted by the Rev. John Maclean, D.D., and the Rev. Henry Bremner, D.D.

In Law.—The Professors and Lecturers in the Faculty of Law, assisted by

John A. Todd, B.L.,	-	-	-	-	1898
William A. Ramsay, LL.B.,	-	-	-	-	1899
Hugh P. Macmillan, LL.B.,	-	-	-	-	1899
Alexander M. Hamilton, LL.B.	-	-	-	-	1899

In Medicine.—The Professors and Lecturers in the Faculty of Medicine, as specified in Section xxiv. of Ordinance No. 14, and the following Additional Examiners :—

Samuel Sloan, M.D.	1896	B. C. A. Windle, M.A., M.D.,	
T. Kennedy Dalziel, M.B.	1896	D.Sc.	1898
A. C. Seward, M.A.	1896	Peter Pinkerton, M.A.	1898
William Stirling, M.D.	1897	Alexander O. Mackellar,	
T. K. Monro, M.A.,		M.D.	1899
M.D.	1897	George G. Henderson, D.Sc.	1899
James A. Adams, M.D.	1897	William Murrell, M.D.	1899
Guthrie Rankin, M.D.	1897	J. Lindsay Steven, M.D.	1899

In Arts.—The Professors and Lecturers in the Faculty of Arts, as specified in Section xiv. of Ordinance No. 13, assisted by the following Additional Examiners :—

R. Y. Tyrrell, Litt.D., D.C.L.,	-	-	Classics,	-	-	-	1896
William R. B. Gibson, M.A.,	-	-	{ Logic and Moral }	-	-	-	1898
			{ Philosophy, }	-	-	-	
W. M. Dixon, M.A., Litt.D.,	-	-	English,	-	-	-	1898
John A. Todd, B.L.,	-	-	Political Economy,	-	-	-	1898
C. B. L. Fletcher, M.A.,	-	-	History,	-	-	-	1898
John G. Kerr, M.A.,	-	-	Education,	-	-	-	1898
F. J. Amours, B.A.,	-	-	French,	-	-	-	1898
John Maclean, D.D.,	-	-	Hebrew,	-	-	-	1898
William A. Lindsay M.A., B.Sc.,	-	-	{ Mathematics & }	-	-	-	1899
			{ Nat. Philosophy, }	-	-	-	

In Science.—Professor Lord Kelvin, D.C.L., Professor Young, M.D., Professor Ferguson, LL.D., Professor M'Kendrick, M.D., Professor Cleland, M.D., Professor Jack, LL.D., Professor Bower, Sc.D., Professor Barr, D.Sc., Professor Biles, Professor Becker, Ph.D., assisted by additional examiners.

Preliminary Examiners in Arts, Science, and Medicine.—†Professor Ramsay, LL.D., Professor Jack, LL.D., Professor Bradley, LL.D., †Professor Lodge, M.A., George Macdonald, M.A., John Edgar, M.A., †Professor George A. Gibson, M.A., John Dougall, M.A., James Colville, D.Sc., †F. J. Amours, B.A., Malcolm G. Ramsay, B.A., Rev. John Maclean, D.D.

Other Officials.

<i>Keeper of Hunterian Library and Museum,</i>	-	-	-	Professor Young, M.D.
<i>Under-Keeper,</i>	-	-	-	John Young, LL.D., F.G.S.
„ (<i>Pathological Department</i>),	-	-	-	John H. Teacher, M.A., M.B., C.M.
<i>Curator of Library,</i>	-	-	-	Professor Dickson, D.D., LL.D.
<i>Librarian,</i>	-	-	-	James Lymburn.
<i>Sub-Librarian,</i>	-	-	-	James L. Galbraith.
<i>Secretary to the University Court,</i>	-	-	-	Alan E. Clapperton, B.L., 91 West Regent Street.
<i>Clerk of Senate,</i>	-	-	-	Professor Stewart, D.D., 18 Annfield Terrace, Partickhill.
<i>Assistants to the Clerk of Senate,</i>	-	-	-	W. Innes Addison, Matriculation Office. James Coutts, M.A., Registration Office. Miss Galloway, Secretary at Queen Margaret College.
<i>Registrar of the General Council,</i>	-	-	-	James Coutts, M.A.
<i>Clerk of the General Council,</i>	-	-	-	Archibald Craig, LL.B., 156 St. Vincent Street.
<i>Factors,</i>	-	-	-	Hill & Hoggan, 194 Ingram Street.
<i>Law-Agents,</i>	-	-	-	Mitchells, Johnston & Co., 160 West George Street.
<i>Auditors,</i>	-	-	-	Brown, Fleming & Murray, 163 West George Street.
<i>Publishers and Booksellers to the University,</i>	-	-	-	James MacLehose & Sons, 61 St. Vincent Street.
<i>Printers to the University,</i>	-	-	-	Robert MacLehose & Co., 153 West Nile Street.
<i>Robe Makers to the University,</i>	-	-	-	James Thomson & Son, 191 West George Street.

HEAD SERVANTS.

<i>Bedellus and Janitor,</i>	-	-	-	Lauchlan M'Pherson.
<i>Master of Works,</i>	-	-	-	John Stitt.

Representatives of the University Court on Charitable and other Boards.

General Medical Council—Professor Sir William T. Gairdner, K.C.B.
Western Infirmary—Mr. Matthew Arthur and Mr. A. E. Clapperton.
Victoria Infirmary—Sir William T. Gairdner and Dr. Colquhoun.
Agricultural College—Professor Stewart and Dr. M'Vail.
Glasgow Samaritan Hospital for Women—Dr. M'Vail.
Highlands and Islands Educational Trust—Sheriff R. Vary Campbell.
Stirling Educational Trust—Mr. Charles King.
Millport Marine Biological Station—Professor Young.

Representatives of the Senate on Educational and other Boards.

Glasgow and West of Scotland Technical College—Professors Young and Barr.
Glasgow City Educational Endowments Board—Professor Stewart.
Glasgow General Educational Endowments Board—Professors Stewart and Jack.
Glasgow School of Art—Professor Jack.
Hutchesons' Educational Trust—Professor Ramsay.
John Clark (Mile-End) Bursary Trust—Professor Stewart.
Scott Scholarship and Bursaries Trust—Professor Bradley.
Western Infirmary—Professors Hastie and Adamson.
Royal Infirmary—Professor Young.
Asylum for the Blind—Professor Ramsay.
Glasgow Convalescent Home—Professor Buchanan.
Buillie's Institution—Professor Ferguson.

Joint Committees of Senate and Court.

LIBRARY COMMITTEE.

Appointed by the Senate—The Principal and Professors Stewart, Ferguson, Bower, Murray, and Moir.
Appointed by the University Court—Rev. Dr. Dickson, Sheriff Berry, and Dr. James Colquhoun.

MUSEUMS COMMITTEE.

Appointed by the Senate—Professors Young, Stewart, Ferguson, and M'Kendrick.

Appointed by the University Court—Drs. Cameron and M'Vail.

OBSERVATORY AND LABORATORIES COMMITTEE.

Appointed by the Senate—Professor Lord Kelvin and Professors Ferguson, M'Kendrick, and Becker.

Appointed by the University Court—The Lord Provost and Sir James King, Bart.

Students' Representative Council.

President—James M. Black, M.A.

Vice-Presidents—Isaac M'Kay Huey ; W. Adam Burns.

Secretary—Ivy M'Kenzie, M.A., Students' Union.

Assistant Secretaries—William Fulton, M.A. (Divinity) ; Robert S. Masterton (Arts) ; J. W. M'Cutcheon, M.A. (Law) ; J. C. Bringan (Medicine) ; and Helen Gordon (Queen Margaret College).

Treasurer—Charles S. Douglas, 12 Dalziel Drive, Pollokshields.

Executive Committee:—The Office-Bearers, with

Arts—A. P. S. Tulloch, George Stewart.

Medicine—George F. Buchan, John Muir.

Queen Margaret College—Helen Armour (Arts) ; S. M. Robertson (Medicine).

I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V., by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "*Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate.*" He then declares that this University shall have the same power of creating Masters and Doctors as any other "*studium generale*" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they

might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of *Pædagogium*, or the College of Arts. It is said to have been situated in the Rottenrow ; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI. prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio*.

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.¹

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal,

¹This system was altered in 1642, in accordance with the practice of the other Universities ; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, *Bajan* ; the second, *Semi* ; the third, *Baccalour* ; the fourth, *Magistrand*.

a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.¹ In the next thirty years seven Professorships were either originally founded or revived, viz. :—those of Mathematics (1691), Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The remaining eighteen Professorships were founded during the present century, viz. :—Natural History, (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883), History (1893), Pathology (1893), Political Economy (1896).

UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted in the fifteenth century, as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal

¹ See Dr. Thomas Reid's Account of the University of Glasgow.

for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies the large amount of £261,429, including £45,000 from the Marquis of Bute for the erection of the Bute Hall, £5,000 from Dr. J. McIntyre for the University Union Buildings, £5,000 from the Bellahouston Trustees for Medical Buildings in the Women's department, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at

the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunningham, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings the classes of the University met for the first time in session 1870-71. In 1893 the buildings and grounds were extended by the gift of North Park House and Grounds for the use of the women students of the University.

GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858 the whole business of the University was transacted in three distinct courts—namely the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy, and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the Parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this Court, and also in the Senate. Meetings of the Comitia were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, con-

sisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, for the administration of the affairs of the University.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council was constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission was created with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners continued to exercise their powers till the end of 1897 and issued ordinances, *inter alia*, for Degrees in Arts, Science, Medicine, Law, and Divinity, for the instruction and graduation of Women, and for special study and research. They also issued an ordinance (No. 60) laying down regulations for the constitution of the Students' Representative Council, and regulations under which that Council is entitled to petition the Senatus Academicus and the University Court.

CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He nominates an Assessor in the University Court, and he is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

Chancellors from the year 1642.

- 1642. James Hamilton Marquis of Hamilton.
- 1660. William Cunningham, Earl of Glencairn.
- 1661. Andrew Fairfowl, Archbishop of Glasgow.
- 1664. Alexander Burnett, " "
- 1670. Robert Leighton, " "
- 1674. Alexander Burnett, " "
- 1679. Arthur Ross, " "
- 1684. Alexander Cairncross, " "
- 1687. John Paterson, " "
- 1692. John Carmichael, Earl of Hyndford.
- 1715. James Graham, Duke of Montrose.
- 1743. William Graham, " "
- 1781. James Graham, " "
- 1837. James Graham, " "
- 1875. Sir William Stirling-Maxwell, Bart., M.P.
- 1878. Walter Francis, Duke of Buccleuch and Queensberry, K.G.
- 1884. JOHN HAMILTON DALRYMPLE, EARL OF STAIR, K.T.

RECTOR.

The Rector is elected by the matriculated students of the University, divided into four nations.¹ In the case of an equality of nations the Chancellor had, in accordance with the Act of 1858, the casting vote, but under the Act of 1889 the Commissioners have ordained (Ord. No. 7) that the election shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The Universities Commission (1858) ordained that the election should take place upon the 15th November (the 16th, if the 15th fell on a Sunday); but by Ordinance No. 139 of the Universities Commission (1889), the election is to take place on such day in the month of October or November as may be fixed by the University Court after consultation with the

¹ The nations are constituted as follows :—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.

2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.

3. The Natio Rothseiana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.

4. The Natio Loudoniana consists of all matriculated students not included in any of the other nations.

Senate, but the date cannot be later than the second Saturday in November in any year. The term of office is three years. The Rector is the official President of the University Court.

Rectors from 1773.

- 1773. Charles Cathcart, Lord Cathcart.
- 1775. Lord Chief Baron Montgomerie.
- 1777. Andrew Stewart, Esq. of Torrance.
- 1779. James Maitland, seventh Earl of Lauderdale.
- 1781. Right Hon. Henry Dundas.
- 1783. Right Hon. Edmund Burke.
- 1785. Robert Graham, Esq. of Gartmore.
- 1787. Adam Smith, LL.D.
- 1789. Walter Campbell, Esq. of Shawfield.
- 1791. Thomas Kennedy, Esq. of Dunure.
- 1793. William Mure, Esq. of Caldwell.
- 1795. William McDowall, Esq. of Garthland.
- 1797. George Oswald, Esq. of Auchincrive.
- 1799. Right Hon. Sir Ilay Campbell, Lord President.
- 1801. William Craig, a Lord of Session.
- 1803. Lord Chief Baron Dundas.
- 1805. Henry Glassford, Esq. of Dugalston.
- 1807. Archibald Colquhoun, Esq. of Killermont.
- 1809. Archibald Campbell, Esq. of Blythswood.
- 1811. Lord Archibald Hamilton.
- 1813. Thomas Graham, Lord Lynedoch.
- 1815. David Boyle, Lord Justice Clerk.
- 1817. George Boyle, Earl of Glasgow.
- 1819. Kirkman Finlay, Esq., M.P.
- 1820. Francis Jeffrey, Esq., Advocate.
- 1822. Sir James Mackintosh, M.P.
- 1824. Henry Brougham, Esq., M.P.
- 1826. Thomas Campbell, LL.D.
- 1829. Henry Petty, Marquis of Lansdowne.
- 1831. Henry Cockburn, Esq., Solicitor-General.
- 1834. Lord Stanley, M.P.
- 1836. Sir Robert Peel, Bart., M.P.
- 1838. Sir J. G. R. Graham, Bart., M.P.
- 1840. John Campbell, Marquis of Breadalbane.
- 1842. Right Hon. Fox Maule, M.P.
- 1844. Andrew Rutherford, Esq.
- 1846. Lord John Russell.
- 1847. Colonel Mure of Caldwell.
- 1848. Thomas Babington Macaulay, Esq.
- 1850. Archibald Alison, Esq., Sheriff of Lanarkshire.
- 1852. Earl of Eglinton.

- 1854. Duke of Argyle.
- 1856. Sir Edward Bulwer Lytton.
- 1859. Earl of Elgin.
- 1862. Viscount Palmerston.
- 1865. John Inglis, Lord Justice Clerk.
- 1868. Lord Stanley (afterwards Earl of Derby).
- 1871. Right Hon. Benjamin Disraeli, M.P. (Earl of Beaconsfield).
- 1877. Right Hon. William Ewart Gladstone, M.P.
- 1880. Right Hon. John Bright, M.P.
- 1883. Right Hon. Henry Fawcett, M.P.
- 1884. Edmund Law Lushington, LL.D., D.C.L.
- 1887. Right Hon. Earl of Lytton, G.C.B., G.C.S.I., C.I.E.
- 1890. Right Hon. Arthur James Balfour, M.P.
- 1893. Right Hon. Sir John Eldon Gorst, M.P.
- 1896. RIGHT HON. JOSEPH CHAMBERLAIN, M.P.

DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title of Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

Deans from the year 1800.

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| <ul style="list-style-type: none"> 1800. James Couper, D.D. 1802. Archd. Campbell, Esq., of Succoth. 1804. Gavin Gibb, D.D. 1806. Duncan Macfarlan, D.D. 1808. Gavin Gibb, D.D. 1810. Duncan Macfarlan, D.D. 1812. Gavin Gibb, D.D. 1814. Stevenson Macgill, D.D. 1815. Archibald Campbell, Esq., M.P. 1817. Sir John Connel. 1819. Archibald Campbell, Esq., M.P. | <ul style="list-style-type: none"> 1821. Sir John Connel. 1823. Archibald Campbell, Esq., M.P. 1825. Sir John Connel. 1827. Archibald Campbell, Esq., M.P. 1829. Sir John Connel. 1831. Archibald Campbell, Esq. 1833. Sir A. Campbell, Bart. 1835. Archibald Campbell, Esq. 1837. Sir A. Campbell, Bart. 1839. Kirkman Finlay, Esq. 1841. Lord Dunfermline. |
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| 1843. Sir T. Makdougall Brisbane, Bart. | 1868. Sir James Fergusson, Bart. |
| 1845. A. Maconochie, Lord Meadowbank. | 1869. Sir Thos. E. Colebrooke, Bart., M.P. |
| 1847. Earl of Eglinton. | 1872. Archd. Orr Ewing, Esq., M.P. |
| 1849. Colonel Mure of Caldwell, M.P. | 1876. Alexander B. M'Grigor, LL.D. |
| 1851. W. Lockhart, Esq., M.P. | 1879. James King, Esq. |
| 1853. Colonel Mure. | 1882. R. W. Cochran-Patrick, LL.D., M.P. |
| 1854. W. Lockhart, Esq. | 1885. Alexander Crum, Esq., M.P. |
| 1857. W. Stirling, Esq., of Keir, M.P. | 1888. Robert Berry, LL.D. |
| 1860. J. Moncreiff, Lord Advocate. | 1896. W. P. Dickson, D.D., LL.D., Emeritus
Professor of Divinity. |
| 1863. Sir A. I. Campbell of Succoth. | |
| 1865. Henry Glassford Bell, Esq. | |

PRINCIPAL.

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the Senatus Academicus; and is also, *ex officio*, a member of the University Court.

Principals from the year 1574.

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| 1574. Andrew Melville. | 1690. William Dunlop. |
| 1580. Thomas Smeaton. | 1701. John Stirling. |
| 1582. Patrick Sharpe. | 1728. Neil Campbell. |
| 1615. Robert Boyd. | 1761. Wm. Leechman, D.D. |
| 1622. John Cameron, D.D. | 1786. Archd. Davidson, D.D. |
| 1626. John Strang, D.D. | 1803. William Taylor, D.D. |
| 1650. Robert Ramsay. | 1823. Duncan M'Farlan, D.D. |
| 1653. Patrick Gillespie. | 1858. Thomas Barclay, D.D. |
| 1661. Robert Baillie, D.D. | 1873. John Caird, D.D. |
| 1662. Edward Wright. | 1898. ROBERT HERBERT STORY,
D.D., LL.D. |
| 1684. James Fall. | |

UNIVERSITY COURT.

The University Court consists of (a) the Rector, (b) the Principal, (c) the Lord Provost of Glasgow for the time being, (d) an Assessor nominated by the Chancellor, (e) an Assessor nominated by the Rector, (f) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (g) four Assessors elected by the General Council, (h) four Assessors elected by the Senatus Academicus. There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

Assessors since the University Court was constituted.

CHANCELLOR.

1859. John Robertson, D.D., Glasgow.
 1865. A. Sym, D.D., New Kilpatrick.
 1870. James Pearson, D.D., Strathblane.

- 1874. Robert Jamieson, D.D., Glasgow.
- 1878. J. A. Campbell, LL.D., Stracathro.
- 1887. SIR JAMES KING, BART., LL.D.

RECTOR.

- 1860. Thomas Buchanan, Esq.
- 1863. Walter Buchanan, Esq., M.P.
- 1866. Archibald Orr Ewing, Esq.
- 1869. James A. Campbell, LL.D.
- 1878. Alexander Crum, Esq.
- 1880. Charles Cameron, M.D., LL.D., M.P.
- 1884. A. B. McGrigor, LL.D.
- 1887. James Grahame, Esq.
- 1890. Lord Blythswood, LL.D.
- 1893. Matthew P. Fraser, LL.B.
- 1896. DAVID MURRAY, LL.D.

LORD PROVOST, MAGISTRATES, AND TOWN COUNCIL OF GLASGOW.

- 1889. JAMES COLQUHOUN, LL.D.

GENERAL COUNCIL.

- 1859. Andrew Bannatyne, LL.D.
- 1864. Lord Kinloch.
- 1867. Anderson Kirkwood, LL.D.
- 1887. R. W. Cochran-Patrick, LL.D.
- 1889. David Hannay, Esq.
- 1889. Hector C. Cameron, M.D.
- 1889. Sir John Neilson Cuthbertson.
- 1891. Rev. J. W. King, M.A., D.D.
- 1891. D. C. McVail, M.B.
- 1893. Hector C. Cameron, M.D.
- 1893. Sir John Neilson Cuthbertson.
- 1895. Rev. J. W. King, D.D.
- 1895. D. C. McVAIL, M.B.
- 1897. HECTOR C. CAMERON, M.D.
- 1897. SIR JOHN NEILSON CUTHBERTSON, LL.D.
- 1899. SIR JAMES BELL, BART.

SENATUS ACADEMICUS.

- 15th Nov., 1859. Professor W. Ramsay, M.A.
- 11th Dec., 1863. Professor R. Buchanan, LL.D.
- 12th Dec., 1867. Professor Allen Thomson, M.D.
- 11th Jan., 1872. Professor Sir W. Thomson.
- 13th Jan., 1876. Professor Cowan, M.D.
- 29th Jan., 1880. Professor Berry, M.A., LL.D.
- 31st Jan., 1884. Professor Dickson, D.D., LL.D.
- 9th Feb., 1888. Professor G. G. Ramsay, LL.D.
- 28th Nov., 1889. Professor Leishman, M.D.
- 28th Nov., 1889. Sheriff Berry, LL.D.
- 28th Nov., 1889. Professor Stewart, D.D.

28th Nov., 1890.	Professor Ramsay, LL.D.
30th Nov., 1891.	Professor Leishman, M.D.
28th Nov., 1892.	Sheriff Berry, LL.D.
28th Nov., 1893.	Professor Stewart, D.D.
30th Nov., 1893.	Professor Gairdner, M.D., LL.D.
28th Nov., 1894.	Professor Jack, LL.D.
30th Nov., 1895.	SIR W. T. GAIRDNER, K.C.B., M.D., LL.D.
28th Nov., 1896.	SHERIFF BERRY, LL.D.
28th Nov., 1897.	PROFESSOR STEWART, D.D.
28th Nov., 1898.	PROFESSOR ADAMSON, LL.D.

The Rector's Assessor continues in office three years, and the other Assessors four years.

Under the Universities Act, 1858, the Court has power :

1. To review all decisions of the Senate, and to be a Court of Appeal from the Senatus, except as otherwise provided in the Universities Act.
2. To effect improvements in the internal arrangements of the University, after due communication with the Senate, and with the sanction of the Chancellor : provided that all such proposed improvements be submitted to the General Council for consideration.
3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching and other duties imposed on the Professors.
4. To fix and regulate, from time to time, the fees in the several Classes.
5. Upon sufficient cause shown, and after due investigation, to censure any member of Senate, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire on a retiring allowance, or to deprive him of office ; and during the suspension of any Professor, to make provision for the teaching of his class : provided always, that no such sentence of censure, deprivation, etc., shall have effect until approved by Her Majesty in Council.

By Section 19 any of the Rules and Ordinances enacted by the Universities Commissioners under the Act, may be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of Her Majesty in Council.

By the Universities (Scotland) Act, 1889, the University Court is a body corporate with perpetual succession and a common seal ; and all the property belonging to the University at the passing of the Act is now vested in that body.

By the same Act, the University Court, in addition to the powers conferred upon it by the Act of 1858, has power :

1. To administer the whole revenue and property of the University, including share of annual Government Grant, and bursary and other mortifications.
2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested,¹ and to receive representations and reports from the Senate and the General Council.

¹ An appeal against any decision of the Senate must be lodged with the Secretary of the University Court within fourteen days from the date of the issue of such decision. See Ordinance No. 5.

3. To review on representation by any member of the University Court or by any member of Senate, any decision of the Senate in the exercise of its powers of regulating and superintending the teaching and discipline of the University: but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.

4. To appoint professors to chairs in University patronage; to appoint examiners and lecturers; and to recognise for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.

5. To define on application by any member of the Senate the nature and limits of a professor's duties under his commission, subject to appeal to the Universities Committee.¹

6. To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or any other person employed in teaching or examining.

7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.

8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special instructions.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee.² After such expiration no new professorship shall be founded otherwise.

By Section 21 of the Act of 1889 the University Court has power to make new ordinances, with the approval of Her Majesty in Council:

1. With respect to the appropriation of the sum allotted to the University by the Commissioners out of the annual grant.

2. Altering or revoking any of the ordinances affecting the University which have been or may be framed and passed under the Act of 1858 or the Act of 1889, and making new ordinances: provided that such ordinances, before being submitted to Her Majesty for approval, have been communicated by the University Court to the Senate, the General Council, and the University Courts of the other Universities, and have been laid for twelve weeks before both Houses of Parliament.

The Court is entrusted with the patronage of several of the Professorships, appoints the additional Examiners for Degrees,

¹ Ordinance No. 144, which was issued on 29th March, 1895, and came into force immediately after the expiration of the powers of the Commissioners (1889), empowers the University Court at any time to revise and adjust the terms of the commission to be issued at the next vacancy of any chair, with regard to the number of lectures and the period of instruction.

² Ordinance No. 144 enjoins the University Court before proceeding to the foundation of any new Professorship, to ascertain that there are sufficient means for its endowment, and also to take into consideration the contingent claim which the Professor may have to a pension.

and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

An abstract of the minutes of the meetings of the University Court during 1898-99 will be found towards the end of the Calendar.

SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the regulation and superintendence of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Senate continues to possess and exercise the powers possessed by it before the passing of the Act of 1889 so far as they are not modified or altered by that Act or by the Act of 1858. The Principal, as President, has a deliberative and a casting vote. One third of the Senate constitute a quorum.

FACULTIES.

The Universities Commissioners, by Ordinance No. 31, dated 5th June, 1893, settled the constitution of the several Faculties in this University, as follows:—I. The Faculty of Arts consists of the Professors of the following subjects, viz., English Language and Literature, Humanity, Greek, Hebrew and Semitic Languages, Mathematics, Natural Philosophy, Logic and Rhetoric, Moral Philosophy, History, Political Economy.¹ II. The Faculty of Science consists of the Professors of the following subjects, viz., Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History, Botany, Anatomy, Physiology, Civil Engineering and Mechanics, Naval Architecture. III. The Faculty of Medicine consists of the Professors of the following subjects, viz., Chemistry, Natural History, Botany, Anatomy, Physiology, Pathology, Materia Medica, Medicine, Surgery, Mid-

¹ See Ordinance No. 149, Section i.

wifery, Forensic Medicine, Clinical Medicine, Clinical Surgery. IV. The Faculty of Law consists of the Professors of the following subjects, viz., Law, Forensic Medicine, Conveyancing, Political Economy.¹ V. The Faculty of Divinity consists of the Professors of the following subjects, viz., Divinity, Divinity and Biblical Criticism, Ecclesiastical History, Hebrew and Semitic Languages. The University Court has power to transfer Chairs from one Faculty to another, and in the event of the foundation of new Chairs, to determine to which Faculty or Faculties such Chairs shall belong.

The Professors constituting each Faculty annually elect one of their number to be Dean of the Faculty.

LECTURERS.

By Ordinance No. 17² of the Universities Commission (1889), the University Court is empowered to appoint, after consultation with the Senatus, Lecturers, whose teaching shall (unless otherwise determined by the University Court) qualify for graduation. They are appointed for a period not exceeding five years, but may be re-appointed. University Assistants or Demonstrators are eligible for appointment as Lecturers and *vice versa*; and both offices may be held at the same time by the same person.

Ordinance No. 65 provides that the classes of University Lecturers shall be conducted at the seat of the University, *i.e.* in the city of Glasgow and the immediate neighbourhood thereof, that no classes conducted by Lecturers elsewhere shall qualify for graduation in any Faculty, and that University Lecturers shall be in all respects subject to the discipline of the Senatus Academicus and of the University Court.

BOARDS OF STUDIES.

By Ordinance No. 11 of the Universities Commission (1889), it is provided that the Senate shall institute Boards of Studies corresponding as nearly as may be to the departments of study for graduation in Arts. Each Board of Studies consists of the Principal, the Dean of the Faculty of Arts, and

¹ See Ordinance No. 149, Section i.

² This ordinance is printed at length in the University Calendar for 1893-94, at pp. 504, 505.

such other members of the Senate and Lecturers in the University as the Senate may from time to time select, a member of the Board being appointed Convener by the Senate. The functions of these Boards are defined in Ordinance No. 11, sections xviii. and xix.

Provision is made in Ordinance No. 42 for the institution of one or more Boards of Studies in each of the Faculties of Medicine and Science. In Medicine the constituent members of the Board or Boards are Professors in the Faculty of Medicine, together with such Professors in other Faculties whose subjects qualify for graduation in Medicine, and such Lecturers in the University as the Senate may from time to time select. The Board or Boards of Studies in Science are similarly constituted *mutatis mutandis*. The Dean of the Faculty of Medicine is Convener of each Board of Studies in Medicine; the Senate appoints the Convener of each Board of Studies in Science.

UNIVERSITY ASSISTANTS OR DEMONSTRATORS.

By Ordinance No. 17¹ of the Universities Commission (1889), the University Court is empowered to determine, after consultation with the Senatus, the number and grade of the Assistants, if any, to be assigned to each Professor. The appointments are made by the University Court on the recommendation of the Professors. The duties of each Assistant are defined by the Professor, with the approval of the Senate. The Assistants are recognized as Officers of the University, and are styled University Assistants or Demonstrators, as the University Court may determine.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1877, to the Chair of Physiology; and the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Natural History.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, with a salary of £140 or thereby, and designated in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

¹ See second note on page 41.

EXAMINERS FOR DEGREES.

By Ordinance No. 13, Sections xiv.—xvi., of the Universities Commission (1889), the Examiners for graduation in Arts, Science, and Medicine respectively are the Professors whose subjects qualify for graduation, together with such Lecturers in the University and such additional Examiners, appointed by the University Court, as the Court may deem necessary. In the case of Medicine, the Court is required to make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

By Ordinances No. 39, Section vii., and No. 40, Section vii., of the Universities Commission (1889), the Examiners for graduation in Law are the Professors and Lecturers whose subjects qualify for graduation, and additional Examiners appointed by the University Court.

By Ordinance No. 63, Section ii., of the Universities Commission (1889), the Examiners for graduation in Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

GENERAL COUNCIL.

[*For names, etc., of Members, see Appendix.*]

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular

attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually in the month of December, for the year following, and includes the names of all members entered on the Registration Book on or before the 30th day of November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on the last Wednesday of October, and the first Wednesday of April. In addition to these statutory meetings the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at ten for every complete thousand or fraction of a thousand on the Register, so that for the present year sixty members are requisite to constitute a quorum, there being 5655 names on the Register, but this provision does not apply to the

statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance No. 9 of the Universities Commission (1889). The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Chancellor's Assessor; whom failing, the Rector's Assessor. In the absence of all these officials, a Chairman shall be elected by the meeting; but in the election of Assessors the members of Senate may not take part.

The General Councils of the Universities of Glasgow and Aberdeen jointly return a representative to Parliament. The Vice-Chancellor of Glasgow University is the returning officer.

Members of Parliament for the Universities of Glasgow and Aberdeen.

1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.

1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.

1876. Right Hon. William Watson, LL.D., Lord Advocate.

1880. Right Hon. JAMES ALEXANDER CAMPBELL, LL.D.

STUDENTS' REPRESENTATIVE COUNCIL.

The constitution and functions of the Students' Representative Council are regulated by Ordinance No. 60, the provisions of which are as follows :—

I. The Students' Representative Council in each University shall submit to the University Court for approval the regulations under which it has been formed or now exists, and these regulations as approved, or with such alterations as may from time to time be approved by the University Court, shall form the constitution of the Students' Representative Council, and shall, subject to the provisions of this Ordinance, determine the functions thereof, and the mode of election thereto.

II. After the University Court has approved of the constitution of a Students' Representative Council in any University, alterations in the said constitution shall be of no effect unless and until they shall receive the approval of the University Court.

III. (1) The Students' Representative Council shall be entitled to petition the Senatus Academicus with regard to any matter affecting the teaching and discipline of the University, and the Senatus Academicus shall dispose of the matter of the petition, or shall, if so prayed, forward any such petition to the University Court, with such observations as it may think fit to make thereon.

(2) The Students' Representative Council shall be entitled to petition the University Court with regard to any matter affecting the students other than those falling under the immediately preceding sub-section.

(3) Nothing contained in this section shall be held to prejudice any right of appeal which may be competent under section 6, sub-section 2, of the Universities Act, 1889, nor the powers and jurisdiction of the Senatus Academicus with regard to the teaching and discipline of the University.

The Council at present consists of representatives (both men and women) from the different Faculties in the University, and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the Students. A Union Committee appointed by the Council completed in Session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the winter session the "Glasgow University Magazine" (published weekly), an Amusements Committee, a Lodgings Committee, and a Book Exchange Committee.

Presidents of the Students' Representative Council.

1885-86. R. M. Wenley, M.A.
 1886-87. Gavin Lambie, M.A.
 1887-88. C. E. Robertson, M.B., C.M.
 1888-89. John H. Harley, M.A.
 1889-90. Robert Bell, M.B., C.M.
 1890-91. William Newlands.
 1891-92. John White, M.A.

1892-93. R. S. Horne, M.A.
 1893-94. John H. Pagan, B.D.
 1894-95. W. M. R. Pringle, M.A.
 1895-96. John S. Thomson, M.A.
 1896-97. Hyam Goodman, M.A.
 1897-98. Arth. S. Middleton, M.A.
 1898-99. JAMES M. BLACK, M.A.

STUDENTS.

Number of Students in the several Faculties, Session 1898-99 :—

MEN.

In Arts (including Summer Matriculation of 1898, 12),	-	618
Science (including Summer Matriculation of 1898, 5),	-	135
Theology (including Summer Matriculation of 1898, 2),	-	52
Medicine (including Summer Matriculation of 1898, 57),	-	577
Law, - - - - -	-	213
Arts and Medicine, - - - - -	-	12
Arts and Theology, - - - - -	-	2
Arts and Science, - - - - -	-	14
Arts and Law, - - - - -	-	4
Science and Medicine, - - - - -	-	10
Arts, Science, and Medicine, - - - - -	-	2
Science and Theology, - - - - -	-	1
Single class enrolment, - - - - -	-	7
	—	1647

WOMEN.

In Arts (including Summer Matriculation of 1898, 1),	-	216
Science, - - - - -	-	4
Medicine (including Summer Matriculation of 1898, 15),	-	84
Science and Medicine, - - - - -	-	2
	—	306
Total, - - - - -	-	1953

Ordinance No. 50 of the Universities Commission (1889) requires that each student shall pay a matriculation fee of One Guinea, at the commencement of each winter session, for the whole academical year then next ensuing; and any student desirous of attending a class or classes during a summer session, without having matriculated at the commencement of the immediately preceding winter session, shall in respect of such summer session pay a matriculation fee of half a guinea. Ordinance No. 147 contains the following regulation with regard to matriculated students:—No person shall be deemed to be a matriculated student in any University or shall enjoy any of the privileges of a matriculated student unless, in addition to paying the matriculation fee, he is enrolled as a student in attendance in one or more classes in the University, and has paid the fees entitling him to such attendance: provided that nothing herein contained shall affect the right of the University Court to exact a fee in lieu of and not exceeding the matriculation fee from any candidate for any examination or for graduation, not being at the time a matriculated student, in addition to the fee payable for such examina-

tion or graduation. The University Court is empowered in special circumstances to permit persons who have not matriculated to attend any single class in any Faculty, on payment of an Entrance Fee of Five Shillings in addition to the authorized class fee, subject to the following provisions, viz. :—(1) That attendance on any class without payment of the matriculation fee shall not qualify for graduation in any Faculty, (2) that persons who have not paid the matriculation fee shall not be entitled to a certificate of attendance on any class, and (3) that payment of such entrance fee shall not confer any University privilege other than the right of attendance on such class. The office of the Clerk of Senate will be open for the purpose of Matriculation on and after 18th October.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and, under certain conditions, to the Hunterian Museum; they are also entitled to vote for the Lord Rector. They are classified as students in Arts, Science, Medicine, Law, and Divinity, according to the nature of their studies; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some favourite branches of learning or science, by attending the lectures given at the University.

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

By Ordinance No. 18¹ of the Universities Commission (1889) the University Court was empowered to admit women

¹ This ordinance is given in full in the *University Calendar* for 1892-93, pp. 504-506.

to graduation, and to provide for their instruction, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. Under this ordinance women were for the first time admitted as matriculated students of this University in Session 1892-93.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University. In the Royal Infirmary certain wards are appropriated to the clinical instruction of women.

UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate, of which the Principal is Convener.

Public Worship is celebrated on certain Sundays during the Winter Session at 2.30 P.M., in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

GYMNASIUM.

This building was erected by public subscription, and fitted according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2600, and was opened for the first time in January, 1872.

The instructor, Mr. Benson, carries out the system of Mr. Maclaren in its entirety. Students are carefully examined and measured on joining, and the exercises graduated according to strength and proficiency. Classes are held on Mondays, Wednesdays, and Fridays from 10 A.M. till 1 P.M., and from 4.30 P.M. till 5.30 P.M. Students may join any one of the above classes. Each class meets three days a week.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and a special evening class is formed for their benefit, which meets on Mondays and Thursdays from 8 P.M. till 10 P.M.

Fees.—1. *For all Students*: One month, 5s. ; Two months, 8s. 6d. ; Three months, 12s. ; Six months, 20s. 2. *For Non-Students*: the Quarter (*i.e.* twice a-week for three months), 15s. ; whole season (seven months), 35s.

The Oxford Silver Medal, presented annually by the late

Mr. Maclaren, for competition among the students, is continued by the Gymnasium, and, at the competition in March, 1899, was gained by T. G. Copestake. The Bronze Medal for competition among the non-students is also continued.

Classes are formed after Christmas to meet twice a week for instruction in boxing and fencing.

In 1894 the Gymnasium Committee agreed to grant the use of the Gymnasium to students attending Queen Margaret College. Suitable hours and days for holding a class are arranged at the beginning of the session. Last year the class met twice a week, on Mondays and Thursdays at 4.30 P.M.

The Gymnasium is managed by a joint-committee of professors and students.

Hon. Treasurer, Alan E. Clapperton, B.L., 91 West Regent Street, Glasgow.

Hon. Secretary, T. G. Copestake, 40 Queen Mary Avenue, Crosshill.

EXAMINATION FOR CANDIDATES FOR THE ARMY.

This Examination, which the Secretary of State for War has accepted as equivalent to the Examination at the English and Irish Universities for similar candidates, consists of three out of the seven Examinations required for the ordinary degree of M.A., but one subject must be taken out of each of the three separate Departments of Classical Literature, Mental Philosophy, and Mathematics. Candidates must not be over twenty-one years of age. Examination Fee, £2 2s. This Examination is intended only for students who have actually attended classes in the University.

II.—TABLE OF UNIVERSITY FEES.

I.—MATRICULATION FEES.

At the commencement of each Academical Year, which extends from 1st October to 30th September, and includes both Winter and Summer Sessions, ...	£1	1	0
At the commencement of each Summer Session, if the Student has not matriculated for the Academical Year then current,	0	10	6

II.—ENTRANCE FEES.

On admission, in special circumstances, of persons who are not matriculated Students of the University to any single class in any Faculty,	0	5	0
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N.B.—Attendance under this Regulation does not qualify for Graduation, and no Certificate for such attendance is given. The Entrance Fee confers no University privileges other than the right of attendance above mentioned.

III.—ENROLMENT FEES (extra-mural lectures).

At the commencement of each year of attendance on the lectures of Extra-Academical Teachers in Glasgow, whose Lectures are recognised for Graduation in Medicine or Science, £1 1 0

IV.—EXAMINATION FEES.

For Preliminary Examinations in Arts, Science, or Medicine—

On each entry for Examination, 0 10 6

For Degree of Master of Arts (M.A.)—New Regulations—

The Fee for this Degree is 5 5 0

Payable £1 1s. on entering for Examination in each subject till £5 5s. are paid.

For Degree of Bachelor of Science (B.Sc.)—New Regulations—

The Fee for this Degree is 5 5 0

Payable £1 1s. on entering for Examination in each subject till £5 5s. are paid.

For Certificate in Engineering Science—

On entering for last subject of Examination, ... 1 1 0

For Degree of Doctor of Letters (D. Litt.)—

On lodging Thesis, 10 10 0

For Degree of Doctor of Philosophy (D. Phil.)—

On lodging Thesis, 10 10 0

For Degree of Doctor of Science (D.Sc.)—

On lodging Thesis, 10 10 0

For Degrees of Bachelor of Medicine (M.B.), and Bachelor of Surgery (Ch.B.)—

On entering for First Professional Examination, ... 6 6 0

„ Second „ „ ... 6 6 0

„ Third „ „ ... 5 5 0

„ Fourth „ „ ... 5 5 0

For Degree of Doctor of Medicine (M.D.)—Old Regulations—

On lodging Thesis, 5 5 0

For Degree of Doctor of Medicine (M.D.)—New Regulations—

On entering for Examination, 10 10 0

For Degree of Master of Surgery (Ch.M.)—

On entering for Examination, 10 10 0

For Degree of Bachelor of Laws (LL.B.)—New Regulations—

The Fee for this Degree is 6 6 0

Payable £1 1s. on entering for each subject till £6 6s. are paid.

III.—SEPARATE FACULTIES AND CLASSES.

The University Classes will meet as follows, daily, unless otherwise specified :—

WINTER SESSION 1899-1900.

I.—ARTS.

THURSDAY, 19TH OCTOBER, 1899.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Latin, Junior,</i>	8 a.m.,	£3 3	} PROF. RAMSAY.
— <i>Middle,</i>	8 a.m. and 11 a.m.,	3 3	
— <i>Senior,</i>	9 a.m. and 1 p.m.,	3 3	
— <i>Private or Honours,</i>	1 p.m.,	3 3 ¹	
— <i>Prosc,</i>	1 p.m., Wed. or 11 a.m., Thurs.,	1 1	
<i>Greek, Junior,</i>	12 noon,	3 3	} PROF. MURRAY.
— <i>Middle,</i>	10 a.m.,	3 3	
— <i>Senior,</i>	8 a.m. and 12 noon,	3 3	
— <i>Honours,</i>	12 noon,	3 3 ¹	
— <i>Prose,</i>	12 noon, once weekly,	1 1	
<i>English,</i>	4.30 p.m.,	3 3 ¹	} PROF. BRADLEY.
— <i>Honours,</i>	12 noon,	3 3	
<i>French,</i>	2 p.m.,	3 3	} M. Charles Martin.
— <i>Honours,</i>	(See p. 67),	3 3	
<i>German,</i>	3 p.m.,	3 3	} Dr. A. Tille.
— <i>Honours,</i>	(See p. 68),	3 3	
<i>Hebrew, Junior,</i>	10 a.m.,	3 3	} PROF. ROBERTSON.
— <i>Senior,</i>	9 a.m.,	3 3	
<i>Arabic or Syriac,</i>	(See p. 120),	2 2 ⁴	
<i>Logic and Metaphysics,</i>	9 a.m. daily,	3 3	} PROF. ADAMSON.
— <i>Honours,</i>	12 noon (see p. 69),	3 3	
<i>Moral Philosophy,</i>	8 a.m.,	3 3	} PROF. JONES.
— <i>Honours,</i>	1 p.m. (see p. 70),	3 3	
<i>Political Economy,</i>	2 p.m.,	3 3	} PROF. SMART.
— <i>Honours,</i>	(See p. 71),	3 3	
<i>Education (Theory, History, and Art of),</i>	3.30 p.m.,	3 3	} Mr. John Adams.
<i>Philosophy of Law,</i>	{ 5.30 p.m., Tues., Fri., and alternate Wed.,	3 3	
<i>Mathematics, First,</i>	9 a.m.,	3 3	} PROF. JACK.
— <i>Second,</i>	9 a.m., or 12 noon	3 3	
— <i>Honours (Intermed.),</i>	10 a.m.,	3 3	
— <i>Honours (Advanced),</i>	11 a.m., Mon., Wed., Fri.,	3 3	
<i>Natural Philosophy,</i>	9 a.m.,	4 4 ²	} PROF.
— <i>Honours,</i>	12 noon,	4 4 ² 3	
<i>Physical Laboratory,</i>	10 a.m. to 4 p.m.,	6 6	} LORD KELVIN.

¹ Fee for a Second or subsequent Session, £2 2s.

² Fee for a Second or subsequent Session, £3 3s.

³ Fee for Honours Course following upon Ordinary Class, £3 3s.

⁴ For students who are attending, or who have attended, the Hebrew Class, the fee is £1 1s

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Astronomy, First (Half Course),</i>	3 p.m., Mon., Wed., and alternate Fri.,	£2 2	} PROF. BECKER.
<i>Chemistry,</i>	10 a.m.,	3 3 ¹	
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	} PROF. FERGUSON.
----- (<i>Half Session</i>), . . . . .	. . . . .	5 5	
<i>Zoology,</i>	9 a.m.,	3 3 ¹	} PROF. YOUNG.
<i>Zoological Laboratory,</i>	10 a.m. to 1 p.m.,	3 3 ¹	
<i>Botany (in Summer),</i> . . . . .	. . . . .	. . . . .	PROF. BOWER.
<i>Geology (Half Course—Jan.),</i>	5.30 p.m.,	3 3 ¹	PROF. YOUNG.
<i>History,</i>	10 a.m.,	3 3	} PROF. LODGE.
----- (<i>Honours</i>),	11 a.m., Mon., Wed., Fri.,	3 3	
<i>Constitutional Law and History (Half Course),</i>	4.30 p.m.,	3 3	} Dr. W. S. M'Kechnie.
----- (<i>Honours</i>),	1 p.m., Mon., Wed., Fri.,	3 3	
<i>Roman Law,</i>	5.30 p.m.,	4 4	} Mr. J. M. Irvine.
<i>History of Civil Law (Half Course),</i>	5.30 p.m. (see p. 111),	3 3	
<i>Public Law (Half Course),</i>	5.30 p.m., Mon., Thur., and alternate Wed.,	3 3	} Mr. W. G. Miller.

II.—SCIENCE.

THURSDAY, 19TH OCTOBER, 1899.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Mathematics, First,</i>	9 a.m.,	£3 3	} PROF. JACK.
----- <i>Second,</i>	9 a.m. or 12 noon,	3 3	
----- (<i>Honours (Intermed.)</i>),	10 a.m.,	3 3	
----- (<i>Honours (Advanced)</i>),	11 a.m., Mon., Wed., Fri.,	3 3	
<i>Natural Philosophy,</i>	9 a.m.,	4 4 ²	} PROF. LORD KELVIN.
----- (<i>Honours</i>),	12 noon,	4 4 ²³	
<i>Physical Laboratory,</i>	10 a.m. to 4 p.m.,	6 6	
<i>Astronomy, First,</i>	3 p.m., Mon., Wed., and alternate Fri.,	2 2	
----- <i>Second,</i>	3 p.m., Tues., Th., and alternate Fri.,	2 2	} PROF. BECKER.
----- <i>First and Second in same Session,</i> . . . . .	. . . . .	3 3
<i>Chemistry,</i>	10 a.m.,	3 3 ¹	} PROF. FERGUSON.
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	
----- (<i>Half Session</i>), . . . . .	. . . . .	5 5
<i>Organic Chemistry (Jan.),</i>	3 p.m., Tues. and Fri.,	1 1	
<i>Anatomy, Junior,</i>	1 p.m.,	3 3 ¹	} PROF. CLELAND and Demonstrators.
----- <i>Senior,</i>	11 a.m.,	3 3 ¹	
<i>Practical Anatomy,</i>	9 a.m. to 4.45 p.m.,	3 3 ¹	} PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Physiology,</i>	12 noon,	3 3 ¹	
<i>Practical Physiology (in Summer),</i> . . . . .	. . . . .	. . . . .
----- <i>Advanced (See p. 91),</i> . . . . .	. . . . .	3 3
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	} PROF. M'KENDRICK and Muirhead Demonstrator.
----- (<i>Half Session</i>), . . . . .	. . . . .	5 5

¹ Fee for a Second or subsequent Session, £2 2s.² Fee for a Second or subsequent Session, £3 3s.³ Fee for Honours Course following upon Ordinary Class, £3 3s.⁴ Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Natural History—</i>			
<i>Zoology (Oct.),</i>	9 a.m., . . .	£3 3 ¹	} PROF. YOUNG.
<i>Geology and Mineralogy</i> { (Jan.), . . . }	5.30 p.m., . . .	3 3 ¹	
<i>Zoological Laboratory,</i>	10 a.m. to 1 p.m., .	3 3 ¹	} PROF. BOWER.
<i>Botany, Advanced,</i>	(See p. 84), . . .	3 3	
<i>Botanical Laboratory, Ad-</i> <i>vanced (Jan.),</i> . . . }	(See p. 84), . . .	3 3	
<i>Engineering, Class I.,</i>	8 a.m., Mon., Wed., Fri.,	2 2	
————— <i>II.,</i> . . .	(not in 1899-1900), .	2 2	} PROF. BARR.
————— <i>III.,</i> . . . {	8 a.m., Tues., Thurs.,	2 2	
————— <i>IV.,</i> . . . {	and Sat., . . .	2 2	
	9 a.m. daily, ex. Sat.,	3 3 ¹	
<i>Engineering Drawing, etc.,</i> {	9 a.m. to 5 p.m. daily,	3 3 ²	
	except Sat., . . .	3 3	
<i>Engineering Laboratory,</i>	9 a.m. to 5 p.m., .	6 6	} PROF. BILES.
————— (<i>Second Session</i>), .	. . . . .	3 3
<i>Engineering Laboratory, Me-</i> <i>chanical or Electrical,</i> . . . }	3 3	} MR. J. D. CORMACK.
<i>Electrical Engineering,</i>	11 a.m. Mon. Wed. and Fri.,	2 2	
<i>Naval Architecture and Mar-</i> <i>ine Engineering, Junior,</i> {	12 noon, Mon., Wed.,	3 3	} PROF. BILES.
	and Fri., . . .	3 3	
————— <i>Senior,</i>	11 a.m., Mon., Tu., & Th.,	3 3	
————— <i>Practical, Junior,</i> {	2 to 5 p.m., Tu., Wed.,	3 3	
	Th., and Fri., . . .	3 3	} PROF. BILES.
————— <i>Senior,</i> {	2 to 5 p.m., Tu., Wed.,	3 3	
	Th., and Fri., . . .	3 3	

III.—MEDICINE.

THURSDAY, 19TH OCTOBER, 1899.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Natural History, Zoology,</i>	9 a.m., . . .	£3 3 ¹	} PROF. YOUNG.
<i>Zoological Laboratory,</i>	10 a.m. to 1 p.m., .	3 3 ¹	
<i>Chemistry,</i>	10 a.m., . . .	3 3 ¹	} PROF. FERGUSON.
<i>Chemical Laboratory,</i> . . .	10 a.m. to 4 p.m., .	10 10	
————— (<i>Half Session</i>), .	. . . . .	5 5	} DR. W. R. LANG.
<i>Organic Chemistry (Jan.),</i>	3 p.m., Tu. and Fri.,	1 1	
<i>Anatomy, Junior,</i>	1 p.m.,	3 3 ¹	} PROF. CLELAND and
————— <i>Senior,</i>	11 a.m.,	3 3 ¹	
<i>Practical Anatomy,</i> . . .	9 a.m. to 4.45 p.m.,	3 3 ³	} Demonstrators.
<i>Physiology,</i>	12 noon,	3 3 ¹	
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m., .	10 10	} PROF. M'KENDRICK and
————— (<i>Half Session</i>), .	. . . . .	5 5	
<i>Materia Medica and Therap.,</i>	1 p.m.,	3 3 ¹	} PROF. STOCKMAN.
<i>Pathology, Systematic,</i>	3 p.m.,	3 3 ¹	
————— <i>Demonstrations only,</i>	. . . . .	1 1	} PROF. MUIR.
<i>Surgery,</i>	12 noon,	3 3 ¹	
<i>Midwifery,</i>	2 p.m.,	3 3 ¹	} PROF. CAMERON.
<i>Practice of Medicine,</i> . . .	11 a.m.,	3 3 ¹	

¹ Fee for a Second or subsequent Session, £2 2s.² Fee for a Third or subsequent Session, £2 2s.³ Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Clinical Medicine,</i>	9 a.m., (see p. 59)		{ PROF. M'CALL ANDERSON and Sir W. T. GAIRDNER.
<i>Clinical Surgery,</i>	9 a.m., (see p. 59)		{ PROF. GEORGE BUCHANAN and PROF. MACEWEN.
<i>Public Health Laboratory,</i>	(See p. 94),	£12 12	{ PROFESSOR GLAISTER and Assistant.
—(Half Session),		6 6	{
<i>Ear,</i>	4 p.m., Mon. (see p. 103),	1 1	Dr. Thomas Barr.
<i>Throat and Nose,</i> {	{ 4 p.m., Th. (University), 4 p.m., Tues. or Fri. (Western Infirmary), }	1 1	{ J. Walker Downie, M.B.

IV.—LA W.

THURSDAY, 19TH OCTOBER, 1899.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Scots Law,</i>	8 a.m.,	£4 4 ¹	PROF. MOODY STUART.
<i>Civil Law,</i>	5.30 p.m.,	4 4 ¹	Mr. J. M. Irvine.
<i>Conveyancing,</i>	8 a.m.,	4 4 ¹	PROF. MOIR.
<i>Constitutional Law and</i> {	4.30 p.m.,	4 4 ¹	} Dr. W. S. M'Kechnie.
<i>History,</i>	(Half Course),	3 3	
<i>Mercantile Law,</i>	5.30 p.m.,	4 4 ¹	} Mr. James Mackenzie.
—(Half Course),		3 3	
<i>Public International Law,</i> {	5.30 p.m., Mon., Th., and altern. Wed., }	3 3	} Mr. W. G. Miller.
<i>Jurisprudence, General or</i> {	5.30 p.m., Tues., Fri., and altern. Wed., }	3 3	
<i>Comparative,</i>			
<i>International Private Law</i>	(in Summer),		
<i>Political Economy,</i>	2 p.m.,	3 3	PROF. SMART.
<i>Forensic Medicine,</i>	(See p. 110),	3 3 ¹	PROF. GLAISTER.

V.—THEOLOGY.

THURSDAY, 26TH OCTOBER, 1899.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Divinity, Senior,</i>	11 a.m.,	£3 3	} PROF. HASTIE.
—Junior,	12 noon,	3 3	
<i>Hebrew, Junior,</i>	10 a.m.,	3 3	} PROF. ROBERTSON.
—Senior,	9 a.m. daily, and 12 noon, Tu. and Th.,	3 3	
<i>Arabic or Syriac,</i>	(See p. 120),	2 2 ²	} PROF. COOPER.
<i>Ecclesiastical History, Junior,</i>	11 a.m.,	3 3	
—Senior,	12 noon,	3 3	} PROF. STEWART.
<i>Biblical Criticism,</i>	10 a.m.,	3 3	
<i>New Testament Greek,</i>	9 a.m., Mon., Wed., Fri.,	2 2	

SUMMER SESSION 1900.

I.—ARTS.

TUESDAY, 24TH APRIL, 1900.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Physical Laboratory,</i>	10 a.m. to 4 p.m.,	£4 4	PROF. LORD KELVIN.
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	5 5	PROF. FERGUSON.
<i>Practical Zoology,</i>	10 a.m. to 1 p.m.,	3 3 ¹	PROF. YOUNG.
<i>Botany,</i>	8 a.m. (see p. 84),	3 3 ¹	} PROF. BOWER.
<i>Botanical Laboratory,</i>	9 a.m. to 4 p.m.,	3 3 ¹	

¹ Fee for a Second or subsequent Session, £2 2s.² For students who are attending, or have attended, the Hebrew Class, the Fee is £1 1s

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Latin,</i>	11 a.m., . . .	£2 2	¹ Mr. W. W. M'Kechnie.
<i>Greek,</i>	10 a.m., . . .	2 2	¹ Mr. W. H. Balgarnie.
<i>Mathematics,</i>	9 a.m., . . .	2 2	¹ Dr. H. S. Carslaw.
			¹ Mr. W. E. Philip.
<i>Hebrew,</i>	9 a.m., . . .	2 2	PROF. ROBERTSON and Mr. T. H. Weir.

II.—SCIENCE.

TUESDAY, 24TH APRIL, 1900.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Practical Zoology,</i> . . .	10 a.m. to 1 p.m., .	£3 3 ²	PROF. YOUNG.
<i>Botany,</i>	8 a.m. (see p. 84), .	3 3 ²	} PROF. BOWER.
<i>Botanical Laboratory,</i> . .	9 a.m. to 4 p.m., .	3 3 ²	
<i>Physical Laboratory,</i> . .	10 a.m. to 4 p.m., .	4 4	PROF. LORD KELVIN.
<i>Electricity—Pure and Applied,</i> .	9 a.m., . . .	3 3	Dr. Magnus Maclean.
<i>Chemical Laboratory,</i> . .	10 a.m. to 4 p.m., .	5 5	} PROF. FERGUSON.
<i>Chemistry, Higher,</i> . . .	. . . .	3 3	
<i>Organic Chemistry,</i> . . .	3 p.m. Tu. and Th.	1 1	Dr. W. R. Lang.
<i>Practical Anatomy,</i> . . .	8 a.m. to 3 p.m., .	2 2 ³	} PROF. CLELAND and Demonstrators.
<i>Practical Physiology,</i> . .	12 noon, . . .	3 3 ²	
<i>Physiological Laboratory,</i> .	10 a.m. to 4 p.m., .	5 5	PROF. M'KENDRICK and Muirhead Demonstrator.

III.—MEDICINE.

TUESDAY, 24TH APRIL, 1900.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Physics,</i>	11 a.m., . . .	£3 3 ²	Dr. M. Maclean.
<i>Botany,</i>	8 a.m., . . .	3 3 ²	} PROF. BOWER.
<i>Botanical Laboratory,</i> . .	9 a.m. to 4 p.m., .	3 3 ²	
<i>Clinical Medicine,</i> . . .	9 a.m., . (see p. 59)		} PROF. M'CALL ANDERSON and Sir W. T. GAIRDNER.
<i>Clinical Surgery,</i> . . .	9 a.m., . (see p. 59)		
<i>Practical Chemistry,</i> . .	9 to 11 a.m., . .	3 3 ² 4	} PROF. GEORGE BUCHANAN and PROF. MACEWEN.
<i>Chemical Laboratory,</i> . .	10 a.m. to 4 p.m., .	5 5	
<i>Organic Chemistry,</i> . . .	3 p.m. Tu. and Th.	1 1	Dr. W. R. Lang.
<i>Practical Anatomy,</i> . . .	8 a.m. to 3 p.m., .	2 2 ³	} PROF. CLELAND and Demonstrators.
<i>Embryology,</i>	11 a.m. (see p. 89), .	2 2	

¹ Lecturers for 1899. The Lecturers for 1900 will be appointed in March.² Fee for a second or subsequent session, £2 2s.³ Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.⁴ Instead of this Practical Course in Summer, Medical Students may take a three months' course of Laboratory Instruction in Winter.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Practical Anatomy and Embryology, if taken together,</i>		£3 3	
<i>Practical Zoology,</i>	10 a.m. to 1 p.m.,	3 3 ¹	PROF. YOUNG.
<i>Practical Materia Medica,</i>	12 noon,	3 3 ¹	PROF. STOCKMAN.
<i>Practical Physiology,²</i>	12 noon (see p. 90),	3 3 ¹	PROF. M'KENDRICK and
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m.,	5 5	Muirhead Demonstrator.
<i>Practice of Medicine,</i>	1 p.m., Tu. and Th.,	3	PROF. Sir W. T. GAIRDNER.
<i>Medical Jurisprudence and</i>			
<i>Public Health,</i>	11 a.m.,	3 3 ¹	} PROF. GLAISTER.
<i>Public Health Laboratory,</i>	(See p. 94),	6 6	
<i>Practical Pathology,²</i>	3 p.m. (see p. 93),	3 3 ¹	PROF. MUIR.
<i>Operative Surgery,</i>	{ 12 noon, with practical work at other hours as may be arranged,	2 2	PROF. MACEWEN.
<i>Diseases of Women,</i>	2 p.m., Tu., Th., Fri.,	2 2	PROF. CAMERON.
<i>Insanity,</i>	{ 12 noon, Wed. (University), 10 a.m. Sat. (Gartnavel),	2 2	Dr. Yellowlees.
<i>Eye,</i>	2 p.m., Tu. and Th.,	1 1 ⁴	Dr. Thomas Reid.
<i>Ear,</i>	4 p.m., Mon. (see p. 103),	1 1	Dr. Thomas Barr.
<i>Throat and Nose,</i>	{ 4 p.m., Th. (University), 4 p.m., Tues. or Friday. (Western Infirmary),	1 1	J. Walker Downie, M.B.

IV.—LAW.

TUESDAY, 24TH APRIL, 1900.

<i>Class.</i>	<i>Hour.</i>	<i>Class Fee.</i>	
<i>International Private Law,</i>	5.30 p.m.,	£3 3	Mr. W. G. Miller.

¹ Fee for a Second or subsequent Session, £2 2s.² After first Lecture, the Class will meet in divisions.³ Open to all Matriculated Students of the University who have completed their Second Winter of Medical study. This course is supplementary to the Winter course, and takes up special subjects, to be announced in the Summer bills.⁴ Includes fee for attendance at Eye Infirmary.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery:—

WESTERN INFIRMARY.—This Hospital contains 400 beds for medical and surgical patients, including Wards for Skin Diseases, and one for diseases peculiar to females. *Physicians*—Professor Sir W. T. Gairdner, M.D., LL.D., F.R.S.; Professor T. McCall Anderson, M.D.; James Finlayson, M.D., LL.D.; Samson Gemmell, M.D.; Professor Ralph Stockman, M.D. *Honorary Consulting Physician*—Gavin P. Tennent, M.D. *Physicians for Diseases of Women*—Professor Murdoch Cameron, M.D.; W. L. Reid, M.D. *Assistant Physicians*—John Alexander,

M.D.; William G. Dun, M.D.; R. S. Thomson, M.D.; Geo. Dickson, M.D. *Surgeons*—Professor George Buchanan, M.D., LL.D.; A. Patterson, M.D.; Hector C. Cameron, M.D.; Professor William Macewen, M.D., LL.D., F.R.S.; J. C. Renton, M.D. *Honorary Consulting Ophthalmic Surgeon*—T. Reid, M.D., LL.D. *Assistant Surgeons*—George T. Beatson, M.D.; T. K. Dalziel, M.B.; James H. Nicoll, M.B.; Duncan Macartney, M.D. *Dispensary Physicians*—R. M. Buchanan, M.B.; R. B. Ness, M.A., M.B.; William MacLennan, M.B.; William R. Jack, B.Sc., M.D.; Henry E. Jones, M.B. *Extra Dispensary Physicians*—Hugh Galt, M.B.; James Carslaw, M.A., M.B.; John M. Cowan, B.A., M.B., B.C. *Dispensary Physicians for Diseases of Women*—Robert Kirk, M.D.; G. A. Turner, M.D.; J. M. Munro Kerr, M.B. *Dispensary Surgeons*—Robert Kennedy, M.A., B.Sc., M.D.; Alfred A. Young, M.A., M.B.; George Burnside Buchanan, B.A. (Cantab.), M.B. *Extra Dispensary Surgeons*—John Morton, M.B.; G. H. Edington, M.D. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat*—J. Walker Downie, M.B. *Surgeon Dentist*—W. D. Woodburn, L.D.S. *Pathologist*—Professor Robert Muir, M.D. *Assistant Pathologist*—A. R. Ferguson, M.B. *Vaccinator*—John W. Nicol, M.B. *Medical Superintendent*—Donald J. Mackintosh, M.B. *Lady Superintendent*—Miss Grace Newbery. *Secretary*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. Vaccination—Mondays and Thursdays at 12 noon. The station is recognized by the Local Government Board. Fee, £1 1s. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. That every student paying at the commencement of his First Year a Fee of £10 10s., will be entitled to admission to the Infirmary, and also to attend Courses of Clinical Instruction during the winter and summer of the said year.

2. That every student who has thus paid £10 10s., and shall at the commencement of his Second Year pay a further Fee of £10 10s., will have the privilege of admission to the Infirmary, and to the several courses of Clinical Instruction during his lifetime.

3. That the Fee for Hospital Attendance and Clinical Instruction for Six Months only be £7 7s.

4. That the Fee for Hospital Attendance and Clinical Instruction for Three Months only be £4 4s.

5. Any student who shall have paid Fees to the amount of £21 or upwards, in the payments as stated above, shall be entitled to a Ticket, admitting him to the Infirmary, and to the Clinical Instruction during his lifetime.

6. There shall be two courses of Clinical Instruction—the one in the Winter, and the other in the Summer session.

Students who have taken the Hospital Ticket previous to 1st October, 1876, will continue at the scale of Fees then in use, but an additional payment of £10 10s. will make them perpetual students of the Hospital, and admit also to the Clinical Classes under the above rules.

Students who have completed their Clinical Course elsewhere shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a Fee of £2 2s.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

ROYAL INFIRMARY.—Hour of Visit—Surgical, 9 A.M. ; Medical, 10 A.M. Clinical Lectures given by the Physicians and Surgeons. Fees for Hospital attendance and Clinical Instruction—same as in the Western Infirmary, excepting fee for six months, which is £6 6s. in the Royal Infirmary.

EYE INFIRMARY, 170 Berkeley Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £1 1s. ; free to those attending the Lectures on the Eye delivered in the University.

INSANITY.—During the Summer Session Dr. Yellowlees gives in the University a Course of Lectures on Insanity at 12 noon on Wednesdays, and Clinical Instruction at the Glasgow Royal Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined Course, £2 2s.

There are also Hospitals for Diseases of the Skin and Ear, and Clinical Instruction in Fevers is given at the Belvidere Hospital.

FACULTIES IN THE UNIVERSITY.

The whole classes of the University are arranged in five Faculties—Arts, Science, Medicine, Law, and Divinity.

I.—FACULTY OF ARTS.

The Faculty of Arts comprehends four Departments of study, viz.:—A. *Language and Literature*, embracing the classes of Humanity, Greek, English, French, German, Hebrew and Semitic Languages; B. *Mental Philosophy*, comprising Logic and Metaphysics, Moral Philosophy, Political Economy, Education, Philosophy of Law; C. *Science*, including Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany, Geology; D. *History and Law*, containing History, Constitutional Law and History, Roman Law, Public Law.

A. LANGUAGE AND LITERATURE.

I. HUMANITY.

The original foundation of this Professorship is not extant; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

Professors from the year 1706.

1706. Andrew Rosse.	1773. Wm. Richardson, M.A.
1735. George Rosse.	1815. Josiah Walker, M.A.
1754. George Muirhead.	1831. William Ramsay, M.A.
1863. GEORGE G. RAMSAY, M.A., LL.D.	

The Humanity Class consists of three main divisions—*Middle*, *Senior*, and *Private* or *Honours Class*, which latter class all members of the ordinary Senior Class have the option of attending. Students not requiring a Public Certificate for the Degree or other purpose may attend as Private Students. Private Students are students who attend the class without taking part in the class work. Students not fit for the Middle Class may be taught separately in a Junior or Preparatory Class.

In all the classes the students prepare certain work prescribed, and are examined orally every day. In the Private or Honours Class the business is conducted largely by Lectures and Prelections delivered by the Professor. Students are also examined orally, and do *unseens* from time to time.

Junior Class.

The JUNIOR CLASS, if such a class is formed, will meet daily from 8 to 9 A.M. on every week day except Saturday. The subjects of study are: Ovid, Tibullus, Virgil, Cicero, Livy—Latin Grammar—Prosody—Easy Latin Prose Composition.

Middle Class.

The MIDDLE CLASS meets daily from 8 to 9 A.M., and from 11 A.M. to 12. The subjects read are: Ovid, Tibullus, Propertius, Virgil, Horace, Cicero, Livy, together with Latin Prose Composition—Grammar—Prosody—History and Antiquities.

Students entering the Middle Latin Class must have a good knowledge of Latin Grammar, and be able to translate at sight simple passages from Latin into English, and both simple and compound sentences from English into Latin. Students desiring to enter the Middle Latin Class for the first time in October, 1899, will be examined in the above subjects on Tuesday, 24th October, at 8 A.M., in order to test their fitness for the Class. Students failing to pass this examination may be taught separately in a Junior or Preparatory Class.

Senior Class.

The SENIOR CLASS meets daily from 9 to 10 A.M., and all students attending the Senior Class have the option also of attending the Private or Honours Class from 1 to 2 P.M. The subjects of study in the class at 9 A.M. are:—The works of Horace—Propertius—Virgil—Cicero—Sallust—Livy—Tacitus—Latin Prose Composition—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session. Students may enrol in the Senior Class for Latin Prose only, attending once a week. Latin Prose is taught in four sections. Section II., III., and IV. meet at 1 P.M. on Wednesdays. Section I. meets on Thursdays at 11 A.M.

Private or Honours Class, 1 p.m.

This class is an Honours or Third-year Class, at which advanced work is read. All students who attend the 9 A.M. class attend at 1 P.M. also, unless exempted for special reasons.

One subject is read and lectured upon on Mondays and Fridays; another subject on Tuesdays and Thursdays. On Wednesdays special classes in Latin Prose are held, at which all students of the 9 A.M. class attend. Students are allowed to attend as Private Students, *i.e.* as listeners only, without doing

any of the work of the class; but in that case they do not receive tickets qualifying for the Degree.

Students wishing to do Latin Prose, for the Degree or other purposes, may attend, for Latin Prose only, in one of the special sections for that subject.

The students are examined orally and on paper at intervals during the session, both in the subjects read in the class and on voluntary subjects specially prescribed. A course of five sessions embraces Lectures and Prelections on *Plantus*—*Terence*—*Lucretius*—*Catullus*—*Propertius*—*Virgil*—*Persius*—*Juvenal*—*Martial*—*Tacitus*.

In all the classes, written exercises in Latin Prose are prescribed regularly, and in the Private Class exercises in Latin or English Verse may be prescribed also.

The subjects read in the Session 1899-1900 will be as follows:—

1. PRIVATE OR HONOURS CLASS, AT 1 P.M.—*Persius* and *Martial*; *Tacitus*, *Annals* III.; *Terence*, *Andria*; *Virgil*, *Æn.* IX.

2. SENIOR CLASS, AT 9 A.M.—*Horace*, *Odes* and *Epodes*; *Cicero*, *Epistles*; *Horace*, *Satires* I.; *Antiquities*, *Prosody*, and *Latin Prose*.

3. MIDDLE CLASS, AT 8 A.M.—*Cicero*, *Phil.* IV., V., VI., VII.; *Virgil*, *Georgic* I., 250-514; *Ramsay's Latin Prose Composition*, Vol. I.; *The Student's Rome*.

AT 11 A.M.—*Selections from Ovid* (*Ramsay*); *Ramsay's Antiquities*; and *The Student's Rome*.

4. JUNIOR CLASS, AT 8 A.M.—*Selections from Tibullus* (*Ramsay*); *Cicero*, *De Amicitia*; *Ramsay's Latin Prose Composition*, Vol. I.

II. GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

Professors from the year 1704.

1704. A. Dunlop, LL.D.	1838. Edmund L. Lushington, LL.D.
1746. James Moor, LL.D.	
1774. John Young, M.A.	1875. R. C. Jebb, D.C.L., Litt. D., LL.D.
1821. Sir Daniel K. Sandford, M.A.	1889. G. G. A. MURRAY, M.A.

The Greek Class consists of three divisions, the Senior, the

Middle, and the Junior. Students not requiring a Public Certificate may attend as Private Students, *i.e.* without doing the work of the class.

Students are placed in the Middle and Junior Classes respectively in accordance with the result of an examination held at the opening of the session. This examination will be held on Tuesday, 24th October, 1899. Accurate knowledge of the Elements of Accidence and Syntax will be required. A piece of unseen translation will also be set.

Students who have sat for the University Preliminary Examination need not sit for this special examination.

All students should possess the following books:—*Ancient Atlas*; *Greek Lexicon*, Liddell & Scott (large or intermediate edition—the small edition is not sufficient); some History or Primer of Greek Literature; *Greek Grammar*, Goodwin.

Senior students are recommended to get Gow's *Companion to the School Classics*, and Seyffert's *Dictionary of Classical Antiquities*, *etc.*, translated by Nettleship and Sandys; or, in place of Seyffert, Smith's two small volumes, the *Classical Dictionary* and the *Dictionary of Antiquities*.

JUNIOR CLASS ('TIRONES').

The Junior Class meets at 12 noon every week-day except Saturday.

The class reads extracts from Xenophon and other Attic writers. There are also written exercises in Greek Composition, and examinations in Grammar.

MIDDLE CLASS ('PROVECTIORES').

The Middle Class meets at 10 A.M. on every week-day except Saturday.

The class usually reads the easier Attic authors, including Lucian. Written exercises in translation from English into Greek and from Greek into English form part of the work.

SENIOR CLASS.

This is the ordinary qualifying class for graduation; all members of it must have passed the Preliminary Examination in Greek on the higher standard, or an equivalent examination.

The class meets at 8 A.M., and certain members of it at 12 noon, every week-day except Saturday.

The class hour is chiefly occupied by the Professor's lectures,

but the class is liable to be examined orally or on paper every day. The work done includes the reading of Greek Authors; Greek Prose Composition; Written Exercises in translation; Greek History, Language, Antiquities, and Literature.

All students requiring a certificate of attendance must duly perform the work of the class; but those who do not require a certificate may attend as Private Students, *i.e.* without doing the work.

HONOURS CLASS ('SENIOR AND PRIVATE').

The Honours Class, or 'Senior and Private,' meets at 12 noon every week-day except Saturday. Members of the Senior Class are recommended to attend, but are not in any way bound to do so; they are not recommended to attempt the work of the class except in so far as it suits their convenience.

The work is similar to that done in the Senior Class, but more advanced, greater attention being given to the History of Literature, Philology, Criticism, and Philosophy. The Honours Students receive private help from the Teaching Staff in addition to the Lectures.

Subjects for Session 1899-1900.

JUNIOR CLASS.—Goodwin, *Greek Grammar*; Sidgwick, *First Greek Writer*; Morris, *Stories in Attic Greek*; some Greek author to be selected at the time.

MIDDLE CLASS.—Xenophon, *Anabasis* I.–IV.—Goodwin and White (Macmillan); Selections from Lucian—Inge and Macnaghten (Rivingtons); Euripides, *Alcestis*—Earle (Macmillan); Composition and Written Translation.

SENIOR CLASS.—Thucydides V.—Graves (Macmillan); Aeschylus, *Prometheus*—Sikes and Wilson (Macmillan); Plato, *Republic*, VIII. and IX.—plain text; Composition and Written Translation; Holm's History of Greece, Vol. II.

HONOURS CLASS.—*Iliad*, XVI. and XXII.; Sophocles, *Electra*; Lectures on Thucydides I.; Aristotle, *Poetics*; and Aeschylus, *Agamemnon*. (For these lectures the student should have read the books beforehand.) Composition, etc.

III. ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861, and is in the gift of the Crown.

Professors.

1862. John Nichol, LL.D.

1889. ANDREW CECIL BRADLEY, M.A., LL.D.

N.B.—*Students will find it much to their advantage to take the English Literature Class, as has hitherto been the custom, in the later part of their Course.*

The subjects of the Ordinary Degree Examinations in October, 1899, and in April and October, 1900, will be found on p. 174. It is necessary for students who enter for these examinations in a session later than that in which they attended the class, to pay special attention to the information there given.

The class meets daily, except on Saturday, at 4.30 P.M.

The work of the class will comprise the following subjects:—

1. English Composition. Text-books: Nichol's *Composition Primer*, and Nichol and M'Cormick's *Questions and Exercises on English Composition*.

2. The Outlines of English Philology.

3. The Elizabethan Drama, with special reference to Shakespeare. The plays dealt with at length will be the following: Marlowe's *Dr. Faustus* and *Edward II.*; Shakespeare's *Two Gentlemen of Verona*, *Richard II.*, *Much Ado About Nothing*, *As You Like it*, *Hamlet*, *Othello*, *King Lear*, *Macbeth*, *Coriolanus*, *Tempest*; Jonson's *Alchemist*; Massinger's *New Way to Pay Old Debts*; Webster's *Duchess of Malfi*; Milton's *Samson Agonistes*. All the non-Shakespearian plays except *Samson Agonistes* will be found in Nimmo's *British Dramatists*.

4. Palgrave's *Golden Treasury of Songs and Lyrics* (First Series), Books III. and IV.

HONOURS CLASS.—Lectures will be given on the general history of English Literature from 1350, and on some of the other subjects for the Honours Degree.

The class will meet on Monday, Wednesday, and Friday at 12 noon for lecture, and on Tuesday and Thursday at the same hour for tutorial instruction in Anglo-Saxon.

IV. FRENCH LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1895.

Lecturers.

1895. Alfred Mercier, L. ès L.

1898. CHARLES MARTIN, M.A. (Paris).

I. ORDINARY CLASS.—The French Ordinary Class meets daily

at 2 p.m., and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class will comprise the following subjects :

A. *Literature*.—Mondays and Fridays and alternate Wednesdays. *Mondays*—A course of lectures on *Le Théâtre en France à l'époque romantique*: A. de Vigny, Victor Hugo, Alexander Dumas. *Fridays*—Special study of La Fontaine, *Fables* (*Livre I.*); Molière, *Le Misanthrope*; Voltaire, *Lettres anglaises*; Lamartine, *Harmonies poétiques et religieuses*; George Sand, *La petite Fadette*. *Alternate Wednesdays*—Literary essays will be read and corrected.

B. *Language*.—Tuesdays and Thursdays and alternate Wednesdays. I. Translations into and from French will be corrected. II. Reading and translation, with commentaries, of selected pieces of modern poets. III. History of the French Language; Historical Grammar.

Students who take French for purposes of graduation must attend both classes; but students who do not intend to graduate may take the Language class alone or the Literature class alone. The fee for one class alone is £2 2s.

II. HONOURS CLASS.—This Class will meet on Tuesdays, Fridays, and alternate Wednesdays, at 12.30 p.m. Fifty Lectures in French. I. Reading, with philological commentaries, of old French texts. Text-book: Gaston Paris, *Extraits de la Chanson de Roland* and *Extrait des Chroniqueurs français*. II. History of the French Language; Historical Grammar. III. *Histoire de la Littérature française au Moyen Age*. IV. Special study of Montaigne, *Les Essais*; Racine, *Phèdre*; Voltaire, *Le Siècle de Louis XIV.*; Victor Hugo, *Les Chants du Crépuscule*, *Les Voix Intérieures*, *Les Rayons et les Ombres*. V. Translations and Essays will be corrected.

V. GERMAN LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1899.

Lecturer.

1899. ALEXANDER TILLE, Ph.D.

I. ORDINARY CLASS.—The German Ordinary Class meets daily at 3 p.m. in the Law Class Room, and the course, which extends to one hundred meetings, qualifies for graduation in Arts. Students who do not intend to graduate may take either the Literature class or the Language class alone. The fee for one class is £2 2s.

A. *Language*.—Fifty lectures in English, Mondays, Thursdays, and alternate Wednesdays. *Mondays*—Grammar of the Modern German Language, with special reference to the relationship to English (20 lectures). Text-book—Brandt, *A Grammar of the German Language* (Boston, 1895). *Thursdays*—Reading of Goethe's *Goetz*, *Iphigenie*, *Hermann und Dorothea*, *Dichtung und Wahrheit*, *Reineke Fuchs*, *Faust I. and II.*; Schiller's *Balladen*, *Kabale und Liebe*, *Don Karlos*, *Braut von Messina*, *Jungfrau von Orléans*, *Maria Stuart*, *Wallenstein* (20 lectures). *Alternate Wednesdays*—Translation into German of Stevenson's *Virginibus Puerisque* (10 lectures).

B. *Literature*.—Fifty lectures in German, Tuesdays, Fridays, and alternate Wednesdays. *Tuesdays* and *Fridays*—Goethe and Schiller (40 lectures). *Alternate Wednesdays*—Discussion in German of selected works of the two poets (10 lectures). Text-books—Karl Gödeke, *Goethe's Leben*; Karoline von Wolzogen, *Schiller's Leben*.

II. HONOURS CLASS.—This Class will meet on Mondays, Thursdays, and alternate Wednesdays at 12.30 p.m.

Fifty Lectures in German. *Mondays* and *Thursdays*—History of the Faust Legend, the Faust Romance, and the Faust Drama (40 lectures). *Alternate Wednesdays*—Studies in sixteenth century German (10 lectures). Text-book—Kuno Fischer, *Goethe's Faust*, Stuttgart, 1893; *Das Volksbuch vom Dr. Faust* (1587), Halle, 1878; Klinger's *Faust*, Lenau's *Faust*, Goethe's *Faust*.

VI. HEBREW AND SEMITIC LANGUAGES.

(See under Faculty of Theology, p. 118.)

B. MENTAL PHILOSOPHY.

I. LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. John London.	1787 ¹ . George Jardine, M.A.
1751. Adam Smith, LL.D.	1827 ² . Robert Buchanan, LL.D.
1752. James Clow.	1864. John Veitch, LL.D.
1895. ROBERT ADAMSON, LL.D.	

¹ Mr. Jardine was assistant and successor to Mr. Clow from 2nd June, 1771.

² Mr. Buchanan was assistant and successor to Mr. Jardine from 1st October, 1824.

The Logic Class meets daily, on five days of the week, from 9 to 10 A.M.

The Course of Lectures will include the following subjects:—

I. LOGIC.—(A) Introduction on the Province and General Problems of Logic. (B) Pure Logic, including the treatment of Fallacy. (C) Theory of Scientific Method.

II. PSYCHOLOGY.—A general account of the composition and development of Mind, with a more detailed consideration of the process of knowledge.

III. METAPHYSICS.—An introduction, historical and critical, to the general questions of Modern Philosophy. The historical reference will concern mainly the doctrines of Descartes, Locke, Berkeley, and Hume.

Students before entering the class are recommended to read some elementary work on Formal Logic, such as Jevons' *Elementary Lessons in Logic* or Fowler's *Deductive Logic*.

An advanced class is held in which lectures are given on some of the subjects prescribed for Honours in Mental Philosophy. During next session this class will meet at 12 noon, on four or five days weekly.

Students before entering the honours class are recommended to read (1) the sections on pre-Kantian philosophy in any history of Modern Philosophy, *e.g.* Kuno Fischer, or Falckenberg, or Erdmann (all of which have been translated into English), and (2) Some history of Greek Philosophy (period before Plato), as Zeller or Burnet or Erdmann.

II. MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. Gerschom Carmichael.	1796 ¹ . Archd. Arthur, M.A.
1730. F. Hutcheson, LL.D.	1797. James Mylne, M.A.
1746. Thomas Craigie.	1839. William Fleming, D.D.
1752. Adam Smith, LL.D.	1866. Edward Caird, D.C.L.,
1764. Thomas Reid, D.D.	LL.D.

1894. HENRY JONES, M.A., LL.D.

The Moral Philosophy Class meets at 8 A.M. on five days of the week.

In this class Moral Philosophy is treated both historically

¹ Mr. Arthur was assistant and successor to Dr. Reid from 22nd May, 1780.

and systematically. In connection with the systematic part of the course lectures are given on the metaphysical and psychological implications of Morals, and in connection with the historical part the development of Morals is traced, and an account given of the main ethical theories of ancient and modern times.

The work of the class will further comprise the study of *Plato's Republic* (translation by Davies and Vaughan), and students are recommended to read in conjunction therewith Bosanquet's *Companion to Plato's Republic*, or Nettleship's *Philosophical Lectures and Remains*, Vol. II.

In the Higher Moral Philosophy Class the Professor will lecture on some of the subjects prescribed for the Degree with Honours. During next session this class will meet at 1 p.m.

III. POLITICAL ECONOMY.

This Chair (called the Adam Smith Chair of Political Economy) was founded by Ordinance No. 149 of the Universities Commission (1889) of date 25th February, 1896, with an endowment of fifteen thousand pounds sterling, given by Mr. Andrew Stewart, merchant, Glasgow. The patronage is vested in the University Court, conjointly with one representative from time to time elected by the Merchants' House of the City of Glasgow, one representative from time to time elected by the Trades' House of the City of Glasgow, and one representative from time to time elected by the Chamber of Commerce of the City of Glasgow. The professor is a professor in the Faculties of Arts and Law.

Before the founding of the Chair, Political Economy was attached to the Chair of Moral Philosophy till 1892, when a separate lectureship was instituted by the University.

Professor.

1896. WILLIAM SMART, M.A., D.Phil., LL.D.

The Political Economy Class meets at 2 P.M.

The Lectures, which are partly doctrinal, partly historical, are intended to accompany the study of prescribed books. The first part of the course will deal with Demand and Consumption: the Agents of Production—Land, Labour, Capital, and Organization: Theory of the Equilibrium of Demand and Supply: Value, or Distribution and Exchange: Trade Unions. (Text-

books—Marshall, *Elements of Economics of Industry*, third edition, 1899; Smart, *The National Income and its Distribution*.) Thereafter Money, Credit and Banking, and International Trade will be taken up. (Text-books—Gide, *Political Economy*, Book II.; Bastable, *Theory of International Trade*.)

AN HONOURS CLASS will meet at an hour to be arranged. The leading subjects will be Taxation and Public Finance, but special study will be made of current economic problems as they present themselves.

Students are recommended to confine themselves for preparatory reading to mastering Marshall's *Principles of Economics*, Vol. I., fourth edition, 1898.

IV. EDUCATION.

THEORY, ART, AND HISTORY OF EDUCATION.

This Lectureship was instituted by the University in 1894.

Lecturers.

1894. David Ross, M.A., B.Sc., LL.D.

1899. JOHN ADAMS, M.A., B.Sc.

The Education Class meets daily at 3.30 P.M. The course consists of one hundred lectures qualifying for graduation in Arts.

A. THEORY.—Application of Logic, Psychology and Ethics to Education; child mind; temperament; suggestion; habit; will; character.

B. ART.—Communication between minds; language; illustration; graphic methods; sequence of studies; form and matter.

C. HISTORY.—Conspectus of educational systems; development of educational ideals; comparative education.

Books for class work and reference.—Davidson's *Aristotle and the Ancient Educational Ideals*; *Herbartian Psychology applied to Education* (Isbister); Locke's *Thoughts on Education*; Rousseau's *Émile* (Payne's translation, International Education Series).

V. PHILOSOPHY OF LAW.

(See under Faculty of Law, p. 112.)

C. SCIENCE.

I. MATHEMATICS.

This Professorship, long suppressed for want of funds, was

revived by an Act of Faculty in 1691. The Professor is appointed by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

Professors from the year 1691.

1691. George Sinclair.

1699. Robert Sinclair, M.D.	1796 ¹ . James Millar, M.A.
1711. Robert Simson, M.D.	1832. James Thomson, LL.D.
1761. James Williamson, D.D.	1849. Hugh Blackburn, LL.D.
1879. WILLIAM JACK, LL.D.	

First Class.

Subjects: *Euclid* and *Algebra*, from the beginning, and *Trigonometry* of right-angled triangles. The class meets from 9 to 10 daily, except on Saturdays.

Second Class.

For students who have attended the First Class, or who have otherwise acquired a knowledge of *Euclid*, Books I., II., III., IV., and of *Algebra*, as represented by the first twenty-two Chapters (Chaps. XIV., XV., XIX. excepted) of Todhunter's larger text-book. Subjects: *Euclid*, Books V., VI., and XI. 1—21, more advanced *Algebra*, and the Elements of *Transversals* and of *Analytical Geometry of the straight line and circle*, *Trigonometry*, including solution of triangles. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 12 to 1.

Intermediate Honours Class.

Subjects: *Plane Trigonometry*, *Analytical Conics*, *Differential and Elements of Integral Calculus*. The class meets from 10 to 11 daily, except on Saturdays.

Advanced Honours Class.

Subjects: *Integral Calculus*, *Spherical Trigonometry*, *Geometry of Three Dimensions*, *Differential Equations*, *Elements of Finite Differences*. The class meets at 11-12 on Mondays, Wednesdays, and Fridays.

In the case of students who began their course before 1st October, 1892, attendance on the Mathematical Classes, for not less than two Winter Sessions, one of which must be on either the Second or the Intermediate Honours Class, is required for the degree of M.A., "unless the candidate at the time of his

¹ Mr. Millar was assistant and successor to Dr. Williamson from 26th Feb., 1789.

entrance to the University shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the Senior Class," in which case attendance on an Honours Class for one session is sufficient.

For the "Lorimer," the "Metcalfe," and the "Muir" Bursaries in Mathematics, see under Bursaries; and for the Cunninghame Gold Medal, see under Prizes.

II. NATURAL PHILOSOPHY.

This Professorship was founded by the Charter of *Nova Erectio* in 1577; and the Professor was confined to the department of Natural Philosophy in 1727. The Professor is elected by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

Professors from the year 1727.

1727. Robert Dick.

1751. Robert Dick, M.D.	1796. James Brown, LL.D.
1757. John Anderson, M.A.	1803. W. Meikleham, LL.D.
1846. LORD KELVIN, D.C.L., LL.D., F.R.S.	

The Natural Philosophy Class meets daily at 9 A.M. The hour is chiefly spent in statements of Principles, descriptions of Results of Observation, and experimental Illustrations.

The main divisions of the course are—(1) Abstract Dynamics; (2) Properties of Matter; (3) Sound, Light, Heat, Magnetism and Electricity.

A programme of the subjects which will be taken up, as far as time permits, during the Session 1899-1900, will be published before the commencement of the session, and may be had on application at the Natural Philosophy Class-room.

The Course of Applied Higher Mathematics, which meets at 12 noon daily, is devoted to Mathematical Demonstrations and Exercises in Kinetics and Statics, and to a course on some special subject of Mathematical Physics.

The text-books used are—

"A Treatise on Natural Philosophy," by Professors Sir William Thomson (Lord Kelvin) and P. G. Tait (Cambridge University Press); "Elements of Natural Philosophy," by the same authors (Cambridge University Press); "Dynamics and Hydrostatics," by J. T. Bottomley (W. Collins & Sons); "Heat" and "Elasticity," Vol. III. of Lord Kelvin's "Mathematical and Physical Papers" (Cambridge University Press); Ganot's

“Physics”; “Absolute Measurements in Electricity and Magnetism,” by A. Gray (Macmillan & Co.); “Mathematical Tables,” by J. T. Bottomley (Macmillan & Co.); “Physical Units,” by M. Maclean.

The more elementary of the treatises by Thomson and Tait, along with Dynamics and Hydrostatics by Bottomley, will be used for the work required of all students of Natural Philosophy in the regular curriculum. Certain specified parts of the larger treatise will be prescribed in connection with examinations and exercises in the class of Applied Higher Mathematics, and for candidates for the Degree of M.A. with Honours. Students attending this class ought to be well prepared on all the subjects of the Intermediate Honours Mathematical Class.

The Laboratory in connection with the class is open daily from 10 A.M. to 4 P.M. for Experimental Exercises and Investigations, under the direction of the Professor and his official Assistants, and the Demonstrator in Experimental Physics.

For the Arnott and Thomson Demonstratorship in Experimental Physics, see p. 122.

III. ASTRONOMY.

(See under Faculty of Science, page 77.)

IV. CHEMISTRY.

(See under Faculty of Medicine, page 86.)

V. ZOOLOGY.

(See Natural History, under Faculty of Medicine, page 85.)

VI. BOTANY.

(See under Faculty of Medicine, page 84.)

VII. GEOLOGY.

(See Natural History, under Faculty of Medicine, page 85.)

D. HISTORY AND LAW.

I. HISTORY.

This Chair was founded by Ordinance No. 28 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court.

Professor.

1894. RICHARD LODGE, M.A.

The Class meets daily at 10 A.M., except on Saturdays. The course consists of one hundred lectures qualifying for graduation. Students are required to pass three written examinations in the course of the session, and to hand in exercises on subjects set from time to time.

In the session of 1899-1900 the Professor will lecture on the Outlines of British History to 1815. The following text-books are prescribed: Green, *Short History of the English People*; Gardiner, *Student's History of England*, or Ransome, *History of England*; Bright, *English History for Public Schools*; Hume Brown, *History of Scotland*. Books upon special periods will be recommended in a detailed syllabus which will be given to the class.

HONOURS CLASS.—This Class will meet on Mondays, Wednesdays, and Fridays at 11 A.M. In each session the Professor will treat some period either of British or European history, with special reference to one or more contemporary authors.

In the session of 1899-1900 the Professor will lecture on European History from 1714 to 1815. Prescribed books: *Recueil des Instructions données aux Ambassadeurs de France, Autriche* (ed. by A. Sorel) from p. 151; *Mémoires de Frédéric II.*; *Diaries and Correspondence of the First Earl of Malmesbury*.

The following books are recommended to students attending this class: Martin, *Histoire de France*, Vols. XV., XVI.; Carlyle, *Frederick the Great*; Coxe, *Bourbon Kings of Spain*; Rambaud, *History of Russia*; Paganel, *Histoire de Joseph II.*; Sorel, *La Question d'Orient*; Geffroy, *Gustave III. et la Cour de France*; Seeley, *Life and Times of Stein*; Fyffe, *History of Modern Europe*, Vol. I.; Sorel, *L'Europe et la Révolution Française*; De Tocqueville, *France before the Revolution*; Mignet, *The French Revolution*; Morse Stephens, *The French Revolution*; Lanfrey, *History of Napoleon*; Mahan, *The Influence of Sea Power upon History*, and *The Influence of Sea Power upon the French Revolution and Empire*.

NOTE.—The classes recognized as Honours Classes in the Group of HISTORY are the Honours Classes held by the Professor of History and by the Lecturer in Constitutional Law and History.

II. CONSTITUTIONAL LAW AND HISTORY.

Lecturer.

1894. WILLIAM S. M'KECHNIE, M.A., LL.B., D.Phil.

(ORDINARY CLASS.—See under Faculty of Law, page 112.)

HONOURS CLASS.—In the winter session of 1899-1900, in the event of any candidates for Honours in History presenting themselves, a course of fifty lectures (qualifying *protanto* for graduation with Honours) will be given on the Constitutional History of England in the seventeenth century, with special reference to the period 1625 to 1660. Books prescribed: Hallam, *Constitutional History*; and Gardiner, *Documents of the Puritan Revolution*. Students are also recommended to consult Gardiner, *History of England*; Christie, *Life of Shaftesbury*; Macaulay, *History of England*. The class will meet on Mondays, Wednesdays, and Fridays at 1 p.m.

III. ROMAN LAW.

(See under Faculty of Law, page 110.)

IV. PUBLIC LAW.

(See under Faculty of Law, page 113.)

II.—FACULTY OF SCIENCE.

The Faculty of Science was instituted by Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, and embraces the classes of Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History (including Geology and Zoology), Botany, Anatomy, Physiology, Civil Engineering and Mechanics, and Naval Architecture. In this Faculty there are also Lectureships on Electricity—Pure and Applied, Electrical Engineering, and Organic Chemistry.

I. MATHEMATICS.

(See under Faculty of Arts, page 71.)

II. NATURAL PHILOSOPHY.

(See under Faculty of Arts, page 73.)

ELECTRICITY—PURE AND APPLIED.

This is one of the subjects of study which may be selected by candidates for the Degree of B.Sc. in Engineering.

Lecturer.

1898. MAGNUS MACLEAN, D.Sc.

The Lectures of this course are delivered daily at 9 a.m. during the Summer Session. The Lectures embrace the fundamental definitions and nomenclature in electrostatics, magnetism and electromagnetism; discussion on the dimensions of magnetic, electrostatic, and electromagnetic units; derivation of the practical units—Volt, ohm, ampere, coulomb, farad, etc.; principles and types of electrometers; the principles of the methods, and the laboratory methods usually employed in measuring quantity of electricity, current, electromotive force, resistance, capacity, activity, coefficient of induction; principles and tests of dynamo-electric machinery; theory of alternating currents and alternate current instruments.

Students attending this course for the purpose of graduating for B.Sc. (see p. 187) are supposed to have already attended a course in the Physical Laboratory, or to be concurrently attending that course.

III. ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown. By Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, it is now called Astronomy, and the Professor is a member of the Faculty of Science, the Chair having been transferred by the Universities Commission in 1893 from the Faculty of Arts to the newly instituted Faculty of Science.

Professors.

1760. Alex. Wilson, LL.D.	1803. James Cooper, D.D.
1784 ¹ . Patrick Wilson, LL.D.	1836. John P. Nichol, LL.D.
1799. W. Meikleham, LL.D.	1859. R. Grant, LL.D., F.R.S.
1893. LUDWIG BECKER, Ph.D., F.R.A.S.	

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the vicinity of the University buildings. The principal instruments are:—A Transit Circle of six inches aperture, by Ertel of Munich; an equatorially-mounted Reflector, of twenty inches aperture, by Grubb of Dublin, to which is at-

¹ Dr. P. Wilson was assistant to his father from 5th June, 1782.

tached an efficient star-spectroscope, of three and a half inches aperture; and an equatorially-mounted Refractor, of nine inches aperture, by Cooke of York. The students' department contains a Theodolite with Circles, fourteen inches in diameter, which is mounted in a rotating hut; and several sextants.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Trustees of the Bellahouston Bequest Fund recently made the generous grant of eleven hundred pounds towards the Chair of Astronomy. The money has been expended in bringing the instruments at the Observatory into an efficient state.

The Professor of Astronomy is chiefly occupied in directing the operations of the Observatory; but he also delivers a Course of Lectures on Astronomy at the University during the session, and gives expositions on instruments and methods of observation at the Observatory.

First Class.

Subjects: Elementary Mathematical Astronomy—The celestial sphere, description and theory of instruments, determination of latitude and time. Spherical Astronomy—Precession, Nutation, Aberration, Figure of the Earth, Deductions from Kepler's Laws.

The class meets at 3 P.M. on Mondays, Wednesdays, and every second week on Fridays. Practical Demonstrations at the Observatory.

Books recommended for general reading:—Barlow and Bryan, *Elementary Mathematical Astronomy* (Univ. Corr. Coll. Tutorial Series, London); Young, *Text-book of General Astronomy*.

Second Class.

Subject: Mechanics of the Heavens. A short course of lectures on the Method of Least Squares and its application to Higher Geodesy will be given towards the end of the session, which may be attended by Engineering students instead of the last lectures of this class.

The students ought to be well prepared on the subjects of the Intermediate Honours Mathematical Class.

The class meets at 3 P.M. on Tuesdays and Thursdays, and every second week on Fridays.

The first class counts as a half course for the Degree of M.A. ; the first and second classes, which may be taken in one session, with practical work at the Observatory, are a full course for the Degree of B.Sc.

IV. CHEMISTRY.

(See under Faculty of Medicine, page 86.)

V. NATURAL HISTORY.

(See under Faculty of Medicine, page 85.)

VI. BOTANY.

(See under Faculty of Medicine, page 84.)

VII. ANATOMY.

(See under Faculty of Medicine, page 88.)

VIII. PHYSIOLOGY.

(See under Faculty of Medicine, page 89.)

IX. CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment¹ by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and more recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.² A lectureship on Electrical Engineering was instituted by the University Court in 1898.

Professors.

- 1840. Lewis D. B. Gordon, C.E.
- 1855. William J. Macquorn Rankine, C.E., LL.D.
- 1873. James Thomson, C.E., LL.D., D.Sc., F.R.S.
- 1889. ARCHIBALD BARR, D.Sc., M.Inst.C.E.

The courses of the Professor of Engineering extend throughout the winter session, that is, from 20th October till 24th March. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in

¹ The annual income of a sum of £5000.

² The salary for the Young Assistantship thus founded is £140 or thereby.

Engineering Drawing and Calculations, and visits to Engineering Works and Manufactories.

These courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or Mining Engineering; but the work of the classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith.

Four Courses of Lectures are arranged for, three of which are delivered in each session.

To suit the convenience of men engaged in offices and works, two of the classes are held at 8 A.M., and the advanced course is held at 9 A.M.

CLASS I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.—Mondays, Wednesdays, and Fridays at 8 A.M.—The Lectures will treat of the Origin, Preparation, Properties and Uses of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron and Steel, Brass and other Alloys, Timber, Building Stones, Cements and Concrete; and the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

CLASS II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.—This class will not be held during the present session. It is held in alternate years with Class III., on Tuesdays, Thursdays, and Saturdays at 8 A.M. Surveying with the Chain and with Angular Instruments; Telemetry; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting-out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earth Works; the Execution of Civil Engineering Works. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

CLASS III.—PRIME MOVERS AND THE MECHANICS OF

MACHINERY.—Tuesdays, Thursdays, and Saturdays at 8 A.M. —The Lectures treat of the Sources of Energy; Fuels; the Theory of Steam and Gas Engines; the structural details of Boilers and Engines; the Mechanics of Machinery; the Elements of Machine Design; the Transmission of Power; and Friction and Lubrication in Machines. Attendance on this class should be preceded by attendance on Class I. in the case of students entering with no knowledge of Mechanics.

CLASS IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS. —Daily, except Saturday, at 9 A.M. The Lectures treat of the Strength and Elasticity of Materials, the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, Shafts, etc.; Hydraulics and Hydranlic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

ENGINEERING DRAWING AND DESIGN.—The drawing class room is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the commencement of the session), and will be expected to devote extra time to the performance of work. The work of the classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing; Lectures and Practice in Design of Structures; Descriptive Geometry; and Graphical Statics; and the Kinematics of machinery, and the performance of graphical work and calculations in connection with the lecture courses.

ENGINEERING LABORATORY.—Pending the erection of the permanent Engineering Laboratory, accommodation is provided in the present buildings for Laboratory practice in Engineering. The equipment includes appliances for calorimetric tests of fuels, and for economy tests of boilers and of steam and gas engines; a 10-ton testing machine arranged for tests in tension, compression, and bending, and fitted with an autographic stress and strain recorder; apparatus for experiments in the flow of water through orifices and pipes, friction and lubrication in machines.

Electrical Engineering Laboratory work is also provided for in respect to electric lighting, transmission of power, etc.

The Laboratory is open daily and the hours of attendance are arranged with the individual students.

For the purposes of Ordinance No. 23, Section IX. (see

page 187), Classes I. and II., or I. and III., along with Laboratory practice, count as a whole course ; Class IV., together with Laboratory practice, counts as a whole course. Candidates taking the second option under Section IX., *i.e.* candidates for the Degree of B.Sc. on the side of Naval Architecture, are required to take Class IV. together with Laboratory practice.

ELECTRICAL ENGINEERING.

This Lectureship was instituted by the University Court in 1898.

Lecturer.

1898. JOHN DEWAR CORMACK, B.Sc., M.I.E.E.

The Lectures of this course are delivered during the winter session, on Mondays, Wednesdays, and Fridays at 11 A.M. The course is recommended to candidates for the B.Sc. Degree in Engineering Science who take the course indicated in Ordinance No. 23, Section IX., 9 (*d*).

The Lectures treat of—Units, Magnetic Properties of Iron, Magnetic Circuits, Design of Electromagnets, Electromagnetic Induction.

Dynamos and Motors—Bipolar and multipolar armatures, commutation, armature reaction, characteristics, losses, efficiencies, regulation and design.

Alternating Currents—Measurement of power, graphical methods of treatment, armatures for alternators, losses, characteristics, efficiency and design of alternators and transformers; Polyphase Currents and Plant; Systems of Distribution.

Recommendation.—It is strongly recommended that students of Engineering should, if possible, get themselves engaged, for two or three summers within the period of their attendance in the University, in engineering or architectural service, in offices, or in workshops, or on works such as railways, water works, or harbour works in progress.

As to the Degrees of B.Sc. and D.Sc. in Engineering Science, see Index.

As to the Certificate of Proficiency in Engineering Science, see Index.

As to the Muir Bursaries, the Metcalfe Bursaries, the Dr. Strang Bursaries, the George Young Bursary, the Walker Prizes and the George Harvey Prize, in the Department of Civil Engineering and Mechanics, see Index.

X. NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

Professors.

1883. Francis Elgar, LL.D. | 1886. Philip Jenkins.

1891. JOHN HARVARD BILES.

The courses of the Professor comprise a Junior Course of Lectures and Examinations upon Naval Architecture and Marine Engine and Boiler Design, and a Senior Course of Lectures and Examinations upon Naval Architecture and Marine Engine Design; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design. The Junior Course of Lectures and Examinations may be taken in either the first or the second year of the regular curriculum, and the classes will meet on Mondays, Wednesdays, and Fridays at 12 noon, or at any other hour that may be found convenient. The classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 A.M. to 12 noon, or at any other hour that may be found convenient.

The Junior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design is expected to be taken by students in the first year of the regular curriculum; and the classes will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any hour that may be found convenient. The classes of the Senior Course will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any other hour that may be found convenient.

As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see Index.

As to the Lloyd's Register Scholarship, the Elder Bursaries, the Shipwrights' Company's Bursary, and the Kirk Memorial Prize, see Index.

III.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the Classes of Botany, Natural History, Physics, Chemistry, Anatomy, Embryology, Physiology, Materia Medica, Pathology, Forensic Medicine, Surgery, Clinical Surgery, Practice of Medicine, Clinical Medicine, Midwifery, Insanity, Diseases of the Eye, Diseases of the Ear, Diseases of the Throat and Nose, Diseases of the Skin, and Diseases of Children.

A. The subjects of the *First Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes :—

I. BOTANY.

This Professorship was founded in 1818. The appointment is vested in the Crown. (See page 152, as to Botanic Garden.)

Professors.

1818. Robert Graham, M.D.	|	1845. G. A. Walker-Arnott, LL.D.
1821. Sir W. J. Hooker, LL.D.	|	1868. Alexander Dickson, M.D.
1841. John H. Balfour, M.D.	|	1879. I. B. Balfour, M.D., D.Sc.
1885. FREDERICK O. BOWER, Sc.D., F.R.S.		

Lectures are given at the University every Tuesday, Wednesday, Thursday, Friday, and Saturday at 8 A.M., during the summer session. On Saturdays, according as the season and the weather permit, either excursions are made for the study of plants in the field, or microscopic demonstrations are given in the Laboratory.

Demonstrations are given in the Botanic Garden or at the University during the latter part of the session.

The Botanical Laboratory at the University is open daily from 9 A.M. to 4 P.M. from the end of April to the middle of July. Classes for elementary practical work in the Botanical Laboratory are formed during these months at hours, so far as practicable, to suit the convenience of students.

A course of Advanced Lectures, as well as a more extended course of Practical Instruction, designed for candidates for the Science Degree, or other more advanced students, will be given in the Laboratory during the winter session. Notice of times of meeting of these classes will be given in due course.

The University Herbarium may be consulted by students on applying to the Professor.

Students in the Botanical Class may obtain, by applying to the Professor, specimens of plants from the Botanic Garden for private study.

For particulars as to the "Dobbie Smith" Gold Medal, see under "Prizes."

II. NATURAL HISTORY.

This Professorship was founded by George III. in 1807. The Professor is appointed by the Crown. In 1876 the late Mrs. Honyman Gillespie of Torbanehill endowed a Lectureship in Geology, to be called the "Honyman Gillespie Lectureship," in memory of her husband, W. Honyman Gillespie, Esq. The Professor of Natural History is the present Lecturer.

Professors.

1807. Lockhart Muirhead, LL.D.

1829. William Couper, M.D. | 1857. Henry D. Rogers, LL.D.

1866. JOHN YOUNG, M.D.

Honyman Gillespie Lecturer—1876. JOHN YOUNG, M.D.

The arrangements for the ensuing year are as follows:—

1. A course of Lectures on Zoology daily at 9 A.M., beginning in October.

2. A course of Lectures on Geology will begin in January; the detailed arrangements will be announced later on.

3. A course of Laboratory Demonstrations and Lectures for senior students will be given in summer. Laboratory hours 10 A.M. till 1 P.M.

Practical Instruction in Zoology will be given in the Zoological Laboratory during the summer and early part of the winter sessions by the Professor, with the assistance of James Rankin, B.Sc., M.B., C.M.

The Professional Examinations in October, 1899, will have special reference to the *Gasteropoda*, *Nemertines*, and *Reptilia*; those in March, 1900, to the *Polyzoa*, *Arachnida*, and *Aves*.

For the Millport Marine Biological Station, see p. 153.

III. PHYSICS.

This Lectureship was instituted by the University in 1894.

Lecturer.

1894. MAGNUS MACLEAN, M.A., D.Sc., F.R.S.E.

The Lectures of this course are delivered daily at 11 A.M.

during the summer session. The Lectures embrace the fundamental principles of the Dynamics of Solids, Liquids, and Gases; and the Rudiments of the Experimental Sciences—Sound, Light, Heat, Magnetism and Electricity. A detailed programme of these subjects, and a note of the text-books used and recommended, will be given to each student at the beginning of the course.

Two written examinations are held during the session.

There is a tutorial hour weekly, in which additional instruction is given by oral examination and written exercises on the previous lectures.

For the Arnott Prize in General Physics, see Index.

IV. CHEMISTRY.

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

Lecturers.

1747. William Cullen, M.D.	1769. William Irvine, M.D.
1756. Joseph Black, M.D.	1787. Thomas C. Hope, M.D.
1766. John Robison, LL.D.	1791. Robert Cleghorn, M.D.

Professors.

1818. Thomas Thomson, M.D.	1852. Thomas Anderson, M.D.
1874. JOHN FERGUSON, M.A., LL.D., F.S.A.	

Assistants.

William R. Lang, D.Sc., F.C.S.	William C. Anderson, M.A., B.Sc.
James Roberts, F.C.S.	

SYSTEMATIC CHEMISTRY.—The Lectures of this course are delivered daily at 10 A.M. during the winter session. They commence with the discussion of the General Principles of Chemical Philosophy, the Non-Metallic and Metallic Elements and their compounds are then treated of, and in the latter part of the course the principles of Organic Chemistry and the more common compounds of Carbon are dealt with.

Tutorial Classes.—In addition to attendance at the Lectures, the students are required to attend the Tutorial Classes, each of which meets twice a week. In these classes additional instruction, by means of oral examination and written exercises, is given.

Written examinations of the whole class are held at intervals during the session.

HIGHER COURSES.—In addition to the lectures on Systematic Chemistry short courses on different branches of Applied Chemistry are given, and to meet the requirements of Ordinance No. 12, Section IX. (4) (see p. 184), a higher course will be delivered as required. It will deal with the Rare Elements, Theories of Chemistry, and the History of Chemistry. For lectures on Organic Chemistry see below.

ANALYTICAL CHEMISTRY.—The Laboratory is open daily during the winter and summer session from 10 A.M. to 4 P.M., for instruction in Chemical Analysis and the application of Chemistry to Medicine and the Industrial Arts. Each student works independently, and goes through a regular series of analytical experiments of gradually increasing difficulty, until he is capable of performing a complete analysis. The more advanced students are instructed in quantitative analysis and in the preparation of organic compounds, with a view to qualifying for the higher standard necessary for the Final Science Examination. Opportunity is also afforded for graduates and other advanced students engaging in original investigation. For particulars as to the appointment of Research Students and Fellows, see page 133.

The attention of students is directed to the following points. It will be found of great advantage to attend the Laboratory course as well as the Lectures, and care should be taken to arrange the classes in such a manner as to leave an interval for study between the conclusion of the Chemical Classes and the Degree Examination. For the "Malcolm Kerr," the "Metcalf," the "George A. Clark" Bursaries, the "Breadalbane" Scholarships, the "Donaldson" Scholarships, the "Mackay Smith" Scholarship, and the "George Roger Muirhead" Prize, in connection with Chemistry, see under "Bursaries," "Scholarships," and "Prizes" in Index.

ORGANIC CHEMISTRY.

This Lectureship was instituted by the University in 1898.

Lecturer.

1898. WILLIAM ROBERT LANG, D.Sc., F.C.S.

In order that students may receive systematic instruction in the principles of Organic Chemistry in addition to that given

in the ordinary winter course of Lectures, two short courses of Demonstrations and Lectures are delivered, one commencing in January and the other during the Summer Session. The principles of organic analyses and the basis on which the compounds of carbon are classified are explained, and the typical compounds and derivatives of the fatty and aromatic series are specially described. The alkaloids and the other unclassified compounds also receive due notice.

As a knowledge of this branch of the subject is required of all students to a greater extent than formerly, attendance at these lectures is recommended.

Text-books. — Remsen's *Organic Chemistry*; R. Lloyd Whiteley's *Organic Chemistry*.

B. The subjects of the *Second Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

I. ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and University jointly. A separate Professorship of Botany was established in 1818, a distinct Lectureship on that branch having existed for a considerable time previously.

Professors.

1720. Thomas Brisbane, M.D.	1781. William Hamilton, M.D.
1742. Robert Hamilton, M.D.	1790. James Jeffray, M.D.
1756. Joseph Black, M.D.	1848. Allen Thomson, M.D.,
1757. Thos. Hamilton, M.D.	LL.D., F.R.S.
1877. JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.	

Demonstrators.

Alex. Macphail, M.B., C.M.	Archd. N. McLellan, M.B.,
John Morton, M.B., C.M.	C.M.
James F. Gemmill, M.A., M.B., C.M.	

In the WINTER SESSION Anatomical Instruction is conducted in the following courses, viz.:—

1. **ELEMENTARY DESCRIPTIVE LECTURES.**—This class meets on five days weekly from 1 to 2 o'clock. The Lectures comprehend a full systematic description of the Bones, Joints,

Muscles and Muscular Organs, and a general view of the Nervous System and Viscera.

2. ADVANCED DESCRIPTIVE LECTURES AND DEMONSTRATIONS.—This class meets on six days weekly from 11 to 12 o'clock, viz., on five days for Lecture, and on Saturday for Microscopical Demonstrations. The course comprehends: 1st, Demonstrations of Regional or Topographical Anatomy, including the Distribution and Relations of the Blood-Vessels and Nerves; 2nd, Histology and a Detailed Description of the Viscera, Brain and Organs of Sense.

3. PRACTICAL ANATOMY or DISSECTIONS under the superintendence of the Professor and Demonstrators. The rooms are open from 9 A.M. to 4.45 P.M. daily, except on Saturdays, when they close at mid-day.

Text-books.—Cleland and Mackay, or 10th edition of Quain's *Anatomy*; Cleland's *Directory for Dissection*. Also, Spalteholz, *Handatlas der Anatomie des Menschen* will be found a valuable and convenient auxiliary.

In the SUMMER SESSION the rooms for Practical Anatomy are open from 8 A.M. to 3 P.M. daily.

EMBRYOLOGY.

A Lectureship on Embryology was instituted by the University Court in 1894, but the first Lecturer, Dr. John Yule Mackay, having resigned before the beginning of the second session, temporary arrangements were made for carrying on the work of the class in 1895 and 1896.

Lecturers.

1894. John Yule Mackay, M.D.

1897. JAMES F. GEMMILL, M.A., M.B., C.M.

The class meets in the Anatomy Class-room at 11 A.M. on Mondays, Tuesdays, Thursdays, and Fridays of the summer session.

II. PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839, under the name of Theory of Physic. It was subsequently known as Institutes of Medicine, and is now, in accordance with Ordinance No. 31 of date 5th June, 1893, designated Physiology.

Professors.

1839. Andrew Buchanan, M.D.

1876. JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.,
F.R.S.E., F.R.C.P.E.

Muirhead Demonstrator.

William Brodie Brodie, M.B., C.M.

Second Assistant.

John H. Teacher, M.A., M.B., C.M.

SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the winter session. They are devoted to an exposition of the main principles and facts of the Physiology of Man.

1. *General Physiology*, which includes a description of the functions of the various tissues, and of the chemical reactions which occur in the living body.

2. *Special Physiology*, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Examinations are held during the session.

PRACTICAL PHYSIOLOGY.

During the *summer session* Practical Instruction is given in the Laboratory by the Professor, the Muirhead Demonstrator, and Assistants, to classes of not more than thirty-five students in each class, at such hour or hours as may be found convenient. The hours usually selected are 8 to 9 A.M. and 12 noon to 1 P.M. daily, except Saturday. This course includes :—(1) Instruction in the use of the microscope, and in the microscopical examination of the various tissues with the aid of modern methods of hardening, staining, cutting, and mounting preparations. (2) The analysis of the principal fluids of the body, with special reference to the physiological processes by which they are produced. (3) The modes of observing and recording certain physiological phenomena. Students will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures.

ADVANCED CLASS OF PRACTICAL PHYSIOLOGY.

This Class is intended to meet the requirements of candidates for the Degree of B.Sc. It will meet during the winter session at a suitable hour, on two or three days weekly, and the course will comprise fifty meetings. Students will be taught (*a*) the more advanced methods of Physiological Chemistry, (*b*) special methods in advanced Histology, and (*c*) the use of physiological apparatus, the experimental investigation of the properties of muscle and nerve, the physics of the circulation, and the physiology of the senses. This course is wholly practical, and is designed to supplement the instruction given in the ordinary class of Practical Physiology, and to lead the student into the higher departments of physiological science.

The Laboratory.

The Laboratory is open daily from 10 A.M. to 4 P.M., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is furnished with the most modern appliances both for research and for the illustration of Lectures on Physiology.

Text-books.

For the Systematic and Practical Classes—*Text-book of Physiology*, 2 vols., by Dr. M'Kendrick.

As to the Muirhead Demonstratorship of Physiology, see p. 122.

III. MATERIA MEDICA.

A Lectureship on this branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

Lecturers.

1766. William Irvine, M.D.	|	1788. Richard Cleghorn, M.D.
1787. Thomas C. Hope, M.D.	|	1791. Richard Millar, M.D.

Professors.

1831. Richard Millar, M.D.	|	1865. John B. Cowan, M.D.
1834. John Couper, M.D.	|	1880. Matthew Charteris, M.D.
1855. John A. Easton, M.D.	|	1897. RALPH STOCKMAN, M.D.

In the courses of instruction and in the scheme of professional examinations prescribed by Ordinance No. 14, the subjects included in the province of this chair are divided into the

two branches of Materia Medica and Therapeutics. In the summer course of Practical Pharmacy, which it is advisable to take before the winter course, attendance at twenty-five meetings of the class is required, and this is supplemented by demonstrations of the most important substances in the British Pharmacopœia. Instruction is given in making up various official preparations, in prescription writing, and in dispensing. The winter course is devoted to Pharmacology and Therapeutics, the official drugs of the British Pharmacopœia being systematically considered in relation to their actions and applications in disease. In addition, lectures are given on the therapeutical aspects of Dietetics, Mineral Waters and Baths, Climate, Electricity, Massage, etc.

Text-books.—The manuals on *Materia Medica and Therapeutics* by Dr. Hale White, Dr. Mitchell Bruce, Dr. Whitla, or Dr. Lauder Brunton; *Practice of Medicine*, by Dr. M. Charteris; *Dictionary of Treatment*, by Dr. Whitla.

C. The subjects of the *Third Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes :—

I. PATHOLOGY.

This Chair was founded by Ordinance No. 29 of the Universities Commission (1889) of date 5th June, 1893. The patronage is vested in seven Curators, of whom four are nominated by the University Court and three by the Directors of the Western Infirmary. By agreement with the Western Infirmary, full accommodation and facilities for teaching are provided for the University in the Pathological Institute recently erected at the Western Infirmary. By mutual arrangement the Professor is the Pathologist to the Infirmary, and the whole material of that institution is available for teaching purposes.

Before the founding of the Chair, Pathology had been taught by Dr. Joseph Coats, who was appointed Lecturer in 1890, and who also held the office of Pathologist to the Western Infirmary.

Professors.

1894. Joseph Coats, M.D.

1899. ROBERT MUIR, M.D.

First Assistant.

Lewis R. Sutherland, M.B., C.M.

Second Assistant (with special reference to Bacteriology).

Alex. Ferguson, M.B., C.M.

Two courses are held, one of Pathology in winter, and one of Practical Pathology in summer. In the work of the classes the two Assistants take part, and they conduct tutorial classes during the winter session.

The course of Pathology consists of Systematic Lectures and Demonstrations. The Lectures (Monday, Wednesday, and Thursday) are devoted to an exposition of the fundamental facts and principles of Pathology. In the Demonstrations (Tuesday and Friday) the fresh material from the Infirmary and preparations from the Museum are used as the basis for an exposition of the subjects illustrated. The projection microscope and lantern are used at the lectures and demonstrations, and special microscopic demonstrations are held on Saturdays.

The class of Practical Pathology meets during the summer session four days a week from 3 to 5. The students are taken through a course of Pathological Histology and Bacteriology.

The fee for each course is £3 3s. Students who have had one of the courses may attend the Demonstrations on payment of £1 1s.

The Museum of the Western Infirmary is open to all Infirmary students, and a printed catalogue is provided. The post-mortem examinations, which are conducted from 10 A.M. onwards, are also open to the students. Each student during his curriculum must attend at least twenty post-mortems, and must produce evidence that he has received instruction in the methods of post-mortem examination.

Post-graduate or Laboratory Courses in Practical Pathology and Bacteriology are held in October and March. These courses are open also to students in their fifth year. Particulars may be obtained from the Professor.

Text-books.—*A Manual of Pathology* by Dr. Joseph Coats; *Practical Pathology* by Dr. J. Lindsay Steven; and a *Manual of Bacteriology* by Drs. Muir and Ritchie.

II. FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
 1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.
 1898. JOHN GLAISTER, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This class will meet daily from 11 to 12 during the summer session.

The Lectures on Forensic Medicine will, as far as possible, elucidate the application of every branch of Medical Science to the purposes of the law.

In the department of Public Health special attention will be given to the subjects of Air, Ventilation and Heating, Water, Food, Meteorology, Injurious Trades, Vital Statistics, Sanitary Law, Disinfection, Disposal of Sewage and Refuse, and Sanitation in general.

During the session students will have an opportunity of visiting, along with the Professor or his assistant, the most important public institutions and works in the district dealing with Disposal of Sewage and Refuse, Disinfection, Ventilation, etc.

Demonstrations, macroscopic and microscopic, will be given frequently during the session, illustrating, as far as possible, the whole range of Forensic Medicine and Public Health.

Written and oral examinations (attendance on which is compulsory) will be held at intervals.

In addition, facilities will be given for studying Practical Toxicology in the Medico-Legal Laboratory at the University.

Text-books (for Class of Medical Jurisprudence and Public Health).—Guy and Ferrier, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*; Hofmann, *Atlas of Legal Medicine* (English edition, 1898); Glaister, *Manual of Public Health for Students, etc.*

PUBLIC HEALTH LABORATORY.—The Laboratory is under the personal supervision of Professor Glaister and his assistant, and is open at hours arranged to suit Classes, for practical instruction in the methods of analysis of air, water, soils, foods, and the detection of adulterations; and instruction in practical meteorology, sanitary appliances, and physics, in relation to public health.

Air.—Estimation of carbonic acid, by Pettenkofer's, Angus Smith's, and other methods; detection and examination of

gaseous impurities ; estimation of organic impurity by ammonia and Carnelly's process ; microscopic examination of matters in suspension ; estimation of humidity, dew point, and tension of vapour.

Water.—Qualitative and quantitative analysis ; microscopical examination of sediments ; physical and biological examination ; comparison and estimation of value of filtering media and filters ; mineral and medicinal waters.

Sewage.—Effects of putrifaction processes ; analysis of raw sewage and sewage effluents.

Soils.—Chemical and physical examination.

Foods.—Analysis and detection of adulterants ; microscopic examination of food-stuffs ; physical, microscopical and chemical examination of milk ; analysis of milk, cream, butter, cheese, and oils used as foods ; microscopical examination and chemical analysis of starchy foods, sugars, tea, coffee, cocoa, pepper, etc. ; examination of preserved foods and detection of their adulterations.

Disinfectants.—Their valuation and comparison ; examination of pigments in articles of attire, wall-papers, and those used in trade.

Bacteriology.—Methods of investigation, cultivation, and transmission ; preparation of culture media ; bacteriological examination of air, water, foods, blood, earth, etc. ; micro-photographic processes.

Microscopy.—Examination of food substances ; parasites—animal and vegetable ; crystalline deposits ; micro-organisms.

Meteorological Instruments.—Barometer, thermometers, different kinds ; rain gauges ; anemometers and manometers ; hygrometers, and their different forms.

The Laboratory is furnished with all the necessary chemical apparatus, etc., required for analysis, and each student is furnished with a set of apparatus for personally doing the work.

There is a complete collection of model sanitary appliances, including traps, soil stacks, to illustrate "syphoning," etc. ; soil-pipes ; ventilators ; meteorological instruments ; and an abundant collection of drawings, diagrams, and illustrative tables.

The Laboratory also possesses a large collection of microscopic specimens illustrative of parasites—animal and vegetable, food characteristics, and bacteriology.

Visits will be made, as arranged, during the Session, to view and inspect modes of sewage disposal, and unhealthy trades, etc.

The Laboratory instruction is recognized for the Diplomas in Public Health of the Triple Scotch Colleges, of the English Colleges, and of the Universities of Cambridge and Oxford under the new regulations.

Text-books (for Public Health Laboratory).—Lehmann, *Methods of Practical Hygiene* (English edition), 2 vols.; Kenwood, *Public Health Laboratory Work* (second edition); Hewlett, *Manual of Bacteriology*, 1898; Muir and Ritchie, *Manual of Bacteriology*, 1897; Slater and Spitta, *Atlas of Bacteriology*, 1898.

N.B.—(See under Faculty of Law, p. 110.)

D. The subjects of the *Final Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

I. SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

Professors.

1815. John Burns, M.D.	|	1860. Joseph Lister, M.B., F.R.S.
1850. James A. Lawrie, M.D.		1869. Sir George H. B. Macleod, M.D., LL.D., F.R.S.E.
1892. WILLIAM MACEWEN, M.D., LL.D., F.R.S.		

The Professor delivers during winter a course extending to about 100 meetings of the class, and consisting of systematic lectures, illustrated by diagrams, casts, and pathological preparations, and of frequent demonstrations, in many of which the electric projection microscope is used for demonstrating surgical pathological histology. There are three written examinations, with oral examinations at intervals. The following is a general outline of the course:—Anaesthesia; wounds and their varieties; haemorrhage and its arrest; the phenomena of destruction and repair of tissues; inflammation; surgical bacteriology; infective processes and diseases dependent upon bacteria and their products; neoplasms; injuries, including fractures and dislocations; Regional Surgery.

During summer Operative Surgery is conducted daily, and consists of descriptive instruction by the Professor in the

principal operations, and the performance of recognised operations by the students under supervision.

In the course of Clinical Surgery which the Professor conducts both winter and summer at the Western Infirmary, as part of the regular Clinical Instruction given to University students, practical instruction is given in the methods of clinical observation, surgical diagnosis and treatment. The Professor also takes occasion, as far as the material is available, to draw the attention of the students to the points illustrative of the principles taught in the systematic course.

II. CLINICAL SURGERY.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

Professor.

1874. GEORGE BUCHANAN, M.A., M.D., LL.D.

Assistant.

George Burnside Buchanan, B.A. (Cantab.), M.B., C.M.

The Professor teaches Clinical Surgery by "Lectures and other instruction" on the cases of patients affected with injuries, diseases, etc., requiring Surgical treatment. There is a summer as well as a winter course.

The class meets daily at 9 A.M. in the Western Infirmary—Wards XIII. and XIX. ; and in the Overtoun Theatre. The work of the week is distributed as follows :—*Monday*—Complete ward visit and clinical remarks at the bed-side. *Tuesday*—Clinical lecture and operations in operating theatre, and ward visit to the most important cases. *Wednesday*—Tutorial class for bandaging, etc., and ward visit. *Thursday*—Clinique—short remarks on new cases, which are examined by the students, with the assistance of the Professor, in the class-room, operating theatre ; and ward visit. *Friday*—Clinical lecture and operations in the operating theatre, and ward visit. *Saturday*—Ward visit.

III. PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and endowed by Queen Anne in the following year. It is in the gift of the Crown.

Professors.

1714. John Johnstoun, M.D.	1789. Thomas C. Hope, M.D.
1751. William Cullen, M.D.	1796. Robert Freer, M.D.
1756. Robert Hamilton, M.D.	1827. Charles Badham, M.D.
1757. Joseph Black, M.D.	1841. William Thomson, M.D.
1766. Alex. Stevenson, M.D.	1852. John M'Farlane, M.D.
1862. SIR WILLIAM TENNANT GAIRDNER, K.C.B., M.D., LL.D., F.R.S.	

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard to the immensely wide range of diseases usually assigned to the physician and the general practitioner, as opposed to the surgeon and the specialist. The general principles and doctrines which are available at the bedside of the sick are each year carefully and thoroughly considered in connection with such a number and variety of illustrative instances as may be expected to leave a lasting and vivid impression of the essentials of Diagnosis, Prognosis, and Treatment, in so far as these can be advantageously delivered in the form of lectures guided by a systematic plan, conveying not only the opinions of the Professor, but also references to the general history of opinion, and the steps by which the existing knowledge of disease has been built up. Thus, a broad and sufficient basis is obtained for conveying an insight into what may now be regarded as settled medical doctrine, and also, as regards points which cannot be so considered, suggestions as to the direction in which we may reasonably look for guidance in the future. But no attempt is made to give a complete synopsis annually of the details of practice in all departments; for this, the student is of necessity referred to one or other of the current text-books. In 1899-1900, the first part of the course will be occupied with the exposition of the Fevers, using especially the greater specific Fevers as types, and giving precedence to some of those of which practical illustrations are usually to be found in the City of Glasgow Fever Hospital at Belvidere, where the Professor recommends the students to avail themselves of the opportunities liberally afforded under the Local Authority for clinical instruction in this subject. The general doctrines of Pyrexia, the use of the Thermometer as a medical instrument, the physiological and pathological relations of temperature to functional disturbance and tissue change, will be discussed in this part of the subject. The connection of

particular Fevers with micro-organisms, and the newer doctrines in regard to toxins, anti-toxins, etc., as bearing both on diagnosis and on treatment, will be indicated as far as possible, without diverging too much from practical lines; and the prevention as well as the treatment of the different Fevers will be considered, so as to comprise in this part of the course the principles, if not the details, of sanitary administration. In the early part of the session instruction will also be given on the elements of Physical Diagnosis, so as to constitute a preparation for hospital and dispensary work. Diseases of the Heart and Great Vessels will next come under consideration, and after these certain Diseases of the Abdomen, as far as time will allow. The Professor has been in the habit of giving two lectures a week in summer in order to overtake subjects left out of the winter course, attendance on these lectures being voluntary, and without additional fee. In the summer of 1899 this course will be upon Diseases of the Nervous System. The course will be illustrated by diagrams and tables, hand-coloured drawings and photographs, etc., wax casts, models, and preparations of morbid Anatomy; and while Clinical Instruction, as given in the Western Infirmary, will necessarily and properly be kept entirely distinct from systematic, incidental reference will sometimes be made to cases under treatment as illustrating details or principles which it is desirable so to bring home to the student. Sir William T. Gairdner conducts at the Western Infirmary, both in winter and in summer, part of the regular Clinical Instruction given to the Medical Students of the University; and he holds that such instruction (whether given by him or by others) is the only form of "laboratory" or "practical" instruction which has any relation to a course of Practice of Medicine. Tutorial Instruction, however, on the basis of the lectures, and by examination *visd voce*, will be arranged, if possible, at suitable hours apart from the lectures, at the commencement of the session, by conference with the class. Three written examinations are held in the course of the winter session, in December, February, and March respectively; and the medals and certificates of distinction are determined upon the basis of these examinations, for which the tutorial classes are considered as a preparation. The meetings of the whole class (including the written examinations) will amount to about 100 during the winter session.

A portrait-medal of Sir William T. Gairdner is awarded to the most distinguished student in the class of Practice of Medicine. The dies for this medal were presented to the University along with a Portrait of the Professor by his former students, on 28th January, 1893.

Text-books.—One of the following is recommended for general use :—Frederick Taylor's *Manual of the Practice of Medicine*, or Osler's *Principles and Practice of Medicine* ; Hilton Fagge's *Principles and Practice of Medicine*, 2 vols. (1891), is a larger work of great excellence, specially adapted for senior students. Finlayson's *Clinical Manual* is in very general use for hospital work ; Hutchison and Rainy's *Clinical Methods* may also be recommended. Specially useful as additional guides to treatment are, Burnay Yeo's *Manual of Medical Treatment*, and Whitla's *Dictionary of Treatment*. More elaborate works, suitable for reference, and accessible in the Library of the University, are, Clifford Allbutt's *System of Medicine*, in seven vols., not yet completed ; Quain's *Dictionary of Medicine* ; and the older, but still valuable works, Reynolds' *System of Medicine* ; Ziemssen's *Cyclopaedia of Practice of Medicine* (16 vols., with Index Volume added) ; Ziemssen's *Handbook of General Therapeutics* (7 vols.). The Professor's *Clinical Medicine* (1862) is out of print, but will be found in the Reading-Room for occasional reference.

IV. CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

Professor.

1874. THOMAS M'CALL ANDERSON, M.D.

Assistants.

James Hinshelwood, M.A., M.D. | William R. Jack, B.Sc., M.D.

The class usually meets five days a week during the winter and summer sessions, and three or four written examinations are held. On Mondays and Fridays the Professor meets the whole class in the lecture-room. On the Monday three or four cases (such as may be studied beyond the immediate vicinity of the patient) are demonstrated ; on the Friday a clinical lecture is given on cases in the wards, or upon some subject bearing upon

the course. On Tuesdays the Professor meets the junior and on Thursdays the senior division of the class, when there is a demonstration of several cases in the wards. On Wednesdays he makes a ward visit with the clinical clerks. The two medical tutors meet the senior division of the class (in sub-sections) on Tuesdays, and the junior on Wednesdays and Thursdays, when the students are brought individually into contact with the patients, are taught how to investigate their cases, and are instructed in the use of instruments, apparatus, etc. On Saturdays one of the tutors revises with the clinical clerks the cases which they have reported during the week. These arrangements are subject to slight alteration at times.

V. MIDWIFERY.

This Professorship was founded by George III. in 1815. The Professor is appointed by the Crown.

Professors.

1815. James Towers, M.D.	1834. William Cummin, M.D.
1820. John Towers, C.M.	1840. John M. Pagan, M.D.
1833. Robert Lee, M.D.	1868. William Leishman, M.D.
1894. MURDOCH CAMERON, M.D.	

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this situation unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Consulting Physician.

A course of lectures on the Diseases of Women is delivered in summer.

E. Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are required also to attend the following courses :—

I. INSANITY.

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject, the Lecturer being Physician-Superintendent of the Royal Lunatic Asylum, Gartnavel.

Lecturer.

1880. DAVID YELLOWLEES, M.D., LL.D.

A course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 10 A.M. on Saturdays.

For the Mackintosh Mental Science Bursary in connection with this class see "Bursaries."

II. DISEASES OF THE EYE.

This Lectureship was instituted by the University in 1828. Great advantages are offered to students for the study of this branch of practice by the Lecturer being one of the Surgeons of the Glasgow Eye Infirmary.

Lecturers.

1828. William M'Kenzie, M.D. | 1868. George Rainy, M.D.
1869. THOMAS REID, M.D., LL.D.

Waltonian Medical Lectureship.

Founded in 1788 by Rev. Dr. William Walton of Upton, in the County of Huntingdon, who bequeathed to the Senate for its support the sum of £1,000, which has been increased by subsequent accumulations to £2,650. It is at present held by DR. THOMAS REID, who is also Lecturer on Diseases of the Eye.

III. FEVERS.

The course of Clinical Instruction in Fevers must consist of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds. Such instruction is given in the Belvidere Hospital.

F. Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are also recommended to attend the following courses :—

I. DISEASES OF THE EAR.

This Lectureship was instituted by the University Court in 1895.

Lecturer.

1895. THOMAS BARR, M.D.

Short courses on Diseases of the Ear are conducted both in winter and summer. They are of a practical character, and arrangements are made so that each student who takes the course may, in accordance with the recommendation of the Senate under Ordinance No. 14, Section VII., 10 B, attend at least ten meetings for practical instruction. At these meetings the students are taught how to examine and treat Ear Disease, while illustrative cases are regularly demonstrated. In connection with each course a certain number of lectures are delivered in the University on Mondays at 4 P.M. The practical work is carried on at the Glasgow Ear Hospital or Western Infirmary on days and hours to suit the convenience of students. As it is not considered desirable that there should be an elaborate or complete course of systematic lectures on this subject, it is understood that a suitable book on Diseases of the Ear should be studied by the student while attending the practical course. It will be arranged that those who are desirous of pursuing the subject further may receive more advanced practical instruction in a second course.

Prizes will be awarded to the most proficient students as tested by clinical examination.

Text-book.—*Manual of Diseases of the Ear* (2nd Edition, 1896), by Thomas Barr, M.D.

II. DISEASES OF THE THROAT AND NOSE.

This Lectureship was instituted by the University Court in 1895.

Lecturer.

1895. JAMES WALKER DOWNIE, M.B., F.F.P. and S.G.

The course of instruction on Diseases of the Throat and Nose is clinical in character, and is conducted in conformity with the recommendation of the Senate under Ordinance No. 14, Section VII., Sub-section 10 B., according to which candidates for graduation in Medicine are recommended to attend a short practical course of ten meetings on this subject.

To permit of the necessary sub-division of the class for purposes of practical instruction there is a winter and a summer course, each having about the same number of meetings.

At the beginning of each session, the class meets as a whole at the University on Thursdays at 4 P.M. There the methods of examining the throat and nose, and the apparatus necessary for this purpose, are described and explained: the appearance of the parts in health and as altered by diseases is described, as are also the means of treatment, etc.

The class is then divided into sections for practical instruction. These sectional meetings are held at the Western Infirmary (Throat and Nose Department)—one section on Tuesdays, another on Fridays, at 4 P.M. At these meetings each student is afforded every facility for examining the various patients for himself under the supervision of the Lecturer.

In the Lectures at the University fuller instruction than can be communicated in the presence of the patient regarding pathological conditions seen at the Infirmary is given, and these lectures are illustrated by casts, coloured and photographic diagrams, instruments, anatomical and pathological specimens. While the importance of attendance on the practical instruction at the Infirmary is urged, all members of the class are requested to attend the meetings at the University.

Text-book.—*Clinical Manual of Diseases of the Throat*, by J. Walker Downie, M.B.

III. DISEASES OF THE SKIN.

The course of instruction on Diseases of the Skin at the Hospital for Skin Diseases is of a thoroughly practical character, and is conducted by Professor M'Call Anderson during both winter and summer sessions. Arrangements have been made to supply short practical courses in accordance with the recommendation of the Senate under Ordinance No. 14, Section VII., Sub-section 10.

IV. DISEASES OF CHILDREN.

Arrangements will be made for enabling students to carry out the recommendation of the Senate, that each candidate for Degrees in Medicine should attend a short practical course on this subject.

IV.—FACULTY OF LAW.

The Faculty of Law embraces the Chairs of Law and Conveyancing, and also the Chairs of Forensic Medicine and Political Economy. In this Faculty there are also Lectureships on Civil or Roman Law, Constitutional Law and History, Jurisprudence, Public International Law, International Private Law, and Mercantile Law.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may be stated that by the regulations of the Faculty of Advocates, every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship, as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance, such as is required for admission to examination for a Law degree, in a class of Scots Law and a class of Conveyancing, in a Scottish University, and evidence of the like attendance in a class of (*a*) Civil Law, (*b*) Philosophy of Law and International Law, Public or Private, (*c*) Constitutional Law and History in a Scottish University, or such attendance in another University or School of Law as may seem to the Dean and his Council to be equivalent thereto, and (*d*) Medical Jurisprudence, in a University, or in a School recognised as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined on (1) Civil Law, (2) Philosophy of Law and International Law, Public or Private, (3) Constitutional Law and History, (4) Medical Jurisprudence,

(5) Scots Law, Civil and Criminal, including Procedure, (6) Conveyancing. Information as to the books prescribed may be obtained from the Clerk of Intrans. If, however, the intrans has obtained the degree of LL.B. from a Scottish University after examination in all the subjects above prescribed for examination in Law, and also produces evidence that he has passed an examination in Procedure, he is held qualified in General Scholarship and Law without examination or other evidence of qualification, subject to the conditions that during the year immediately before presenting his diploma to the Examiners, he shall not have been engaged in any trade, business, or profession, as above set forth, and that he shall have duly presented his petition for admission and appeared before the Examiners prior to the commencement of such year. If the intrans has obtained said degree of LL.B. after passing examinations in one or more of the said subjects he is exempt from examination in these subjects. He must pass in at least two of the subjects at one time. The regulations regarding the "Public Examination," which all intrans, whether graduates or not, must undergo, require that the intrans shall write a Thesis on a Title of the Pandects assigned to him by the Dean, and shall defend it on its being impugned. The question as to the intrans's admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, and by the Law Agents and Notaries Public Act, 1891, and relative Acts of Sederunt of the Court of Session, prescribing rules as to subjects of examination and certain conditions of admission. The former Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination.

By an Act of Sederunt, dated 18th March, 1893, which came into operation in terms of an Act of Sederunt of 19th

December, 1893, on 1st January, 1895 (but by a subsequent Act of Sederunt of 29th January, 1895, is not to take effect in case of candidates whose indenture is dated on or before 18th March, 1893, until 1st March, 1896), an Act of Sederunt of 20th December, 1873, and all amending provisions in subsequent Acts of Sederunt are repealed except as to anything that has been done in pursuance thereof.¹ The Act of Sederunt of 18th March, 1893, institutes two examinations in General Knowledge, instead of the Entrance Examination and General Knowledge Examination required by the Act of Sederunt of 20th December, 1873, the first of which is to be taken before or within one year after the commencement of apprenticeship, and the second either immediately after the first examination or at any time within three years thereafter. The Act of Sederunt prescribes the subjects of these examinations and of the examination in Law. Lower or Higher Grade Leaving Certificates exempt from the first examination in General Knowledge, and Higher Grade Leaving Certificates from the second examination, Higher or Lower Certificates of the Oxford and Cambridge Schools Examination Board affording similar exemptions. Higher Standard Certificates in the Preliminary Examination for M.A. under Ordinance No. 11 exempt from both of these examinations. A Lower Standard Certificate in the Preliminary Examination for M.A. under Ordinance No. 11 exempts from the first examination in General Knowledge in any subject to which that Certificate applies, and a Higher Standard Certificate exempts similarly from the second examination in General Knowledge. Certificates entitling to exemption from the first examination must be presented to the Clerk of the Board of Examiners of Law Agents before or within one year after the commencement of apprenticeship, and the three years within which the second examination must be taken are reckoned as from the date of such presentation of the certificate. A candidate for admission as Law Agent is exempted from any examination in General Knowledge, if (*inter alia*) he hold a Degree of any University in the United Kingdom granted after examination. By Act of Sederunt of 12th July, 1893, a candidate does not require to undergo examination in General Knowledge if he has

¹ The provisions of these earlier Acts of Sederunt may be found in previous *Calendars*.

been admitted as apprentice under indenture, and passed the entrance examination prescribed under the Act of 20th December, 1873, prior to 18th March, 1893, and has attended classes in Arts in terms of the Act of 20th December, 1873, and has completed attendance in such classes prior to 1st November, 1895. Further, by the Act of Sederunt of 18th March, 1893, a candidate who holds the degree of LL.B. or B.L. of any Scottish University is exempted from any examination in Law, excepting only on Forms of Process, Civil and Criminal. Candidates who have passed the Entrance Examination under the previously existing rules are exempt from the first examination under this Act of Sederunt, and candidates who have passed the General Knowledge Examination, prescribed by the Act of Sederunt of 20th December, 1873, before 1st January, 1894, are exempted from further examination in General Knowledge, and candidates who have passed the examination in Law under the said Act of Sederunt are exempt from further examination in Law.

For Regulations as to Graduation in Law, see Index.

LAW.

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

Professors.

1714. Wm. Forbes, Advocate.	1842. Allan A. Maconochie,
1746. Wm. Cross, Advocate.	Advocate.
1750. Hercules Lindsay, LL.D.	1855. Geo. Skene, Advocate.
1761. John Millar, Advocate.	1867. Robert Berry, M.A.,
1801. R. Davidson, Advocate.	LL.D., Advocate.
1887. ALEXANDER MOODY STUART, LL.D., Advocate.	

SCOTS LAW.—The course extends to about 100 Lectures, embracing as full a course of Scots Law in each session as the time will permit, and including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale; Stoppage *in transitu*; Retention and Lien; Loan;

Deposit ; Pledge ; Hiring, and the Law of Master and Servant ; Law of Carriers and Affreightment ; Mandate ; Partnership ; Bills of Exchange ; Cautionary Obligations ; Law of Heritage ; Servitudes ; Prescription as applicable to Heritage ; Law of Landlord and Tenant ; Succession in Heritage and Moveables, Testate and Intestate ; Marriage and Divorce, and the Rights of Husband and Wife ; Law of Parent and Child ; Guardian and Ward ; Actions and Evidence ; Diligence and Bankruptcy ; Criminal Law, etc.

The text-books recommended to Students are Bell's *Principles of the Law of Scotland* and Erskine's *Principles of the Law of Scotland* (late editions).

The class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary class examinations, which are conducted in writing.

Three Prizes are given by the University for proficiency in the class examinations ; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

CONVEYANCING.

This Chair was instituted by ordinance of the Universities Commission (1858) of date 15th June, 1861, which was approved by Her Majesty in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

Professors.

1862. Anderson Kirkwood, LL.D.

1867. Sir James Robertson, LL.D.

1889. JAMES MOIR, Member of the Faculty of
Procurators, Glasgow.

The course extends to about 100 Lectures, and during the session there are both oral and written examinations. As full a course of Conveyancing is given each session as the time permits. The subjects treated will be selected from the

following list, viz. : (1) Introductory and Preliminary Lectures. (2) The Feudal and Burgage System, the constitution of Feudal and Burgage Rights, and the transmission thereof by Deeds *inter vivos*, or by Judicial Acts. (3) Heritable Securities. (4) Leases. (5) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (6) The completion of Titles, in case of death, to Heritable and Moveable Estate.

The class meets every day, except Monday, from 8 to 9 A.M.

The text-books recommended are Duff's *Feudal Rights*, with Supplement; *Lectures on Conveyancing*, by Menzies; *Lectures on Conveyancing*, by A. M. Bell; and Craigie's *Statutes*.

Prizes are given for eminence in the class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Scots Law.

FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.

1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.

1898. JOHN GLAISTER, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This course, qualifying for graduation in Law (B.L. and LL.B.), will be delivered during the winter session: time and place to be arranged hereafter.

Text-books.—Guy and Ferrier, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*.

(See under Faculty of Medicine, p. 94.)

POLITICAL ECONOMY.

(See under Faculty of Arts, p. 70.)

CIVIL LAW.

The study of Civil Law in Glasgow is coeval with the establishment of the University. In the University Annals it is

recorded that, in 1460, lectures on the Civil Law were delivered in the Chapter-House of the Friars Predicators by Master William of Levenax (Lennox). After being for a considerable period in abeyance, the study of the subject was revived in 1712. In the middle of last century the lectures were for the first time delivered in English; up to that time the prelections were in Latin. For some years during this century the lectures were once more in abeyance, but in session 1873-74 a class was again formed, and was taught in alternate sessions by the Professor of Law. In 1894 the University Court, carrying out a recommendation of the Universities Commission (1876), instituted a separate Lectureship in the subject.

Lecturer.

1895. J. M. IRVINE, LL.B., Advocate.

The course extends to eighty lectures. The first part of the course will deal with the Constitutional History of Rome and the history of the development of the law. This part is intended to serve as an introduction to the study of the special departments of the law. The latter part of the course will be devoted to a systematic exposition, in detail, of the various departments of the law, according to the order in which they are treated in Justinian's *Institutes*. The class meets four days a week during the winter session, from 5.30 to 6.30 p.m. Attendance at the class is required of all candidates for Degrees in Law (LL.B. and B.L.); it also qualifies for the Degree of M.A.

HONOURS IN ECONOMIC SCIENCE.—The lectures in the class of Civil Law up to Christmas, together with about twelve additional lectures given after Christmas separately from the ordinary course on Civil Law, constitute a half course on the History of Civil Law qualifying for the Degree of M.A. with Honours in Economic Science.¹ The additional lectures will deal with the history of Civil Law after the time of Justinian and with the influence of the Civil Law in the development of modern law and existing institutions.

Text-books.—*Institutes of Justinian*; Eds., Moyle or Sandars. Reference is also frequently made to *Institutes of Gaius*; Eds., Poste or Muirhead. The text-book recommended for students taking the half course in History of Civil Law is Ortolan, *Histoire de la Législation Romaine* (English translation by Cutler).

¹ See fifth note on p. 166.

CONSTITUTIONAL LAW AND HISTORY.

This Lectureship was instituted by the University in 1878, and the class was taught in alternate years during the summer session, the course extending to forty lectures. In 1894 the University Court, to meet the requirements of the Ordinances for Graduation in Law, placed the Lectureship upon a new footing. The course was extended to eighty lectures, and the class was made a Winter Class, meeting every year. Attendance upon the whole course is required of all candidates for the Degree of Bachelor of Laws (LL.B.). Attendance upon the first fifty lectures of the course qualifies for the Degree of M.A.,¹ subject to the conditions laid down in Ordinance No. 11, and for the Degree of B.L., subject to the conditions laid down in Ordinance No. 40.

Lecturers.

1878. Charles S. Dickson, M.A., Advocate.

1878. Alex. Ure, LL.B., Advocate.

1889. Robert T. Younger, LL.B., Advocate.

1894. WILLIAM S. McKECHNIE, LL.B., D.Phil.

ORDINARY CLASS.—The course will be partly historical and partly analytical. The historical lectures will trace in outline the development of the Constitution from the Anglo-Saxon migrations to the present reign. The analytical lectures will treat (1) of the safeguards of the rights of individuals, and (2) of the separate parts of the Constitution and the distribution of power in the State.

The text-books recommended are those prescribed for the M.A., B.L., and LL.B. Degrees.

The hour for the meeting of the class is 4.30 p.m.

HONOURS CLASS.—(See under Faculty of Arts, p. 76.)

GENERAL OR COMPARATIVE JURISPRUDENCE.

This Lectureship was instituted by the University in 1893, under the title Philosophy of Law. The subject was at an early date treated as an integral part of the course of Moral Philosophy, under the name of Natural Jurisprudence. From 1878 it was treated by the Lecturer on Public Law as introductory to that subject.

Lecturer.

1893. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

¹ See note on p. 164.

The course is given on Tuesdays and Fridays during the winter session. Alternate Wednesdays are devoted to tutorial instruction. The lectures discuss the nature, origin and development of the idea of a Right, the relation of Law to other social phenomena, and of Jurisprudence to other branches of Philosophy. Some legal categories will be examined in detail. The same course under the name of Philosophy of Law may be reckoned as a half course for the Degree of M.A.

The class meets at 5.30 P.M.

Text-books.—(See subjects for Degrees in Law and in Arts.) Reference is constantly made to the ordinary text-books in the other Law Classes, and to the Statutes in ordinary collections.

THE LAW OF NATIONS, OR PUBLIC INTERNATIONAL LAW.

In 1878 the University instituted a Lectureship on Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, created separate courses for Private International Law and for General or Comparative Jurisprudence.

Lecturer.

1878. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

The course is given on Mondays and Thursdays during the winter session. Alternate Wednesdays are devoted to lectures on the history of International Law from the Reformation to the present day. The doctrinal Lectures discuss the principal doctrines as well as the philosophical principles underlying them. The same course, under the name of Public Law, may be reckoned as a half course for the Degree of M.A.

Students are expected to be acquainted with the elements of the Civil Law, and to have a general acquaintance with Modern European History. *Text-book.*—Hall's *International Law*.

The class meets at 5.30 P.M.

INTERNATIONAL PRIVATE LAW.

From 1878 this subject was treated as part of the course of Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, instituted a Lectureship on International Private Law.

Lecturer.

1894. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

This course is given in the summer session. The lectures discuss the principal doctrines as developed in the decisions of the British Courts contrasted with the results of Continental Jurisprudence. Students are expected to be familiar with the leading doctrines of the Civil Law and of Scots Law. The class meets at 5.30 P.M.

Text-book.—Rattigan, *Private International Law*.

MERCANTILE LAW.

This Lectureship was instituted by the University in 1894.

Lecturer.

1894. JAMES MACKENZIE, Member of the Faculty of Procurators, Glasgow.

This course will extend to eighty lectures, discussing as time will permit the following subjects:—Banking, Bills of Exchange, Joint Stock Companies, Bankruptcy, Maritime Law, including Ownership, Sale and Mortgage of Vessels, Carriage by Sea, Bottomry, Salvage, and General Average; Carriage by Land; and Marine Insurance. Attendance on the whole course may, subject to the conditions laid down in Ordinance No. 39, be reckoned as qualifying for the Degree of LL.B.; and attendance on forty lectures, constituting a half course, may, subject to the conditions laid down in Ordinance No. 40, be reckoned as qualifying for the Degree of B.L. The class meets at 5.30 P.M.

V.—FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular sessions, or two full and regular sessions

and three partial sessions ; and to give at least two full sessions of regular attendance on the classes of Church History, Hebrew, and Biblical Criticism.

Each student, in order to be enrolled *for the first year* of his attendance, must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical Standards of the Church ; and, *secondly*, a certificate signed by the Convener or Vice-Convener of one of the four Examining Committees appointed, under the Act of Assembly, 1872, to conduct the examination of students previous to their entering the Divinity Hall.¹ In order to be admitted to this examination he must, in accordance with the Act² of Assembly, 1896, produce, in addition to the certificate from the Presbytery recommending him, either (a) the diploma of a Master of Arts of a Scottish University, or the diploma of a Bachelor of Arts after an undergraduate course at any British or Irish University, or at any Colonial University at which the course is equivalent to that of a Scottish University, and which shall be approved by the General Assembly on a report from the Committee on the admission of ministers and the status of students of Divinity, or evidence that he has passed the examinations for, and is entitled to receive, such diploma of Master or Bachelor of Arts ; or (b) evidence that he has passed the Preliminary Examination required of those proceeding to the Degree of Master of Arts in a Scottish University, or such examination as the University authorities recognize as equivalent thereto, and that he has attended some one of the courses required for that degree, and has not only attended the classes of the course,

¹ The following are the subjects of examination for October, 1899 :—LATIN—Livy, Book XXI. ; Juvenal, *Satires* X. and XIII. GREEK—Plato, *The Apology of Socrates. The Epistles to Timothy*, with Introduction: any text-book. HEBREW—The Grammar—Davidson's *Hebrew Grammar*, Sections 1-30. Genesis, Chapter I. MATHEMATICS—Euclid, Books I., II., and III. Algebra to Quadratic Equations, inclusive. NATURAL PHILOSOPHY—Deschanel, *Physics*, Part I. LOGIC—Jevons, *Elementary Lessons in Logic*. MORAL PHILOSOPHY—Muirhead, *Elements of Ethics* (University Extension Manual). ENGLISH LITERATURE—Morley's *First Sketch*, Chapter VII. (Reign of Elizabeth); Hooker, *Ecclesiastical Polity*, Book I. (Clarendon Press ; by Dean Church). The Examining Committees meet at the respective University seats shortly before the commencement of each session, the times and places of meeting being duly announced in the *Missionary Record* of the Church of Scotland for July annually, along with the names of the Conveners and Vice-Conveners of the respective Committees.

² The provisions of this Act are applicable to all students beginning their course in Arts with a view to the ministry after May, 1895, and also to such students as have already begun their course and may desire to take advantage of its provisions.

but has duly performed the work of each of them.¹ The subjects of examination are Greek (including the New Testament in Greek), Latin, Moral Philosophy, and Hebrew; provided always that a student who produces evidence that he has passed the examination for the Degree of Master or Bachelor of Arts in any of these subjects shall be exempted from examination in that subject.

The student, in order to his enrolment *for each subsequent session* of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral character from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session.

At the close of each session every student is required to take with him to the Presbytery certificates from the several Professors, under whom he has studied, of his good conduct and proficiency.

By Act VII. of the General Assembly, 1894, it is enacted—that “Candidates for licence who have finished a regular course of study in Theology shall be examined as soon as it can conveniently be done after the close of the Divinity session by one or other of the Examining Committees constituted by Act IX., Assembly 1872. . . . The time and place of examination, with any other necessary information, shall be published in the October number of the *Missionary Record*. The following shall be the heads of subjects of examination:—(i.) Apologetics, including Natural Theology; (ii.) Church History; (iii.) Old Testament Introduction and Exegesis; (iv.) New Testament Introduction and Exegesis; (v.) Christian Doctrine. . . . The special subjects of examination from year to year . . . as agreed upon by the several Committees, shall be intimated in the July number of the *Missionary Record*. Students who have passed for the Degree of B.D., and who satisfy the Committee that they have done so, shall be exempted from examination in the subjects covered by the Degree of B.D.”

¹ Any student who has gone through a curriculum in Arts in accordance with the provisions of Ordinance No. 11, but who has not graduated, may on application obtain, at the end of his course, a certificate to that effect at the Matriculation Office on production of his Preliminary Examination Certificate and the necessary Class-tickets duly signed.

Students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,¹ during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce, before being taken on trials, due evidence of such attendance.

By Act IX. of the General Assembly, 1895, it is enacted—"that every student before being taken on trial for licence shall produce evidence of having regularly attended two courses of the Pastoral Lectures provided by the Home Mission Committee."

Each student is required during his curriculum to deliver *six* discourses—viz., an EXEGESIS in Latin on some controverted head in Divinity, a HOMILY in English, a CRITICAL EXERCISE on some portion of the original text of the Old Testament, an EXERCISE and ADDITION on some portion of the original text of the New Testament, a LECTURE on some portion of Scripture, and a POPULAR SERMON, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced, along with class certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the Latin Exegesis shall be given in to the Professor of Divinity, and the Lecture to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

¹ For the purposes of the Act of Assembly, and to qualify for the competition for the Downhill Prizes, the following teachers are recognised:—Mr. Thomas Harrower, 282 Bath Street; Mr. William S. Vallance, 291 Sauchiehall Street; Mr. John Forsyth, 20 Rupert Street; Mr. David B. Johnstone, A.Mus., 16 Burnbank Terrace; and Mr. James C. Newlands, 27 Lynedoch Street.

DIVINITY.

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

Professors.

1640-50. David Dickson.	1744. William Leechman, D.D.
1642-61. Robert Baillie.	1761. Robert Trail, D.D.
1653. John Young.	1775. James Baillie, D.D.
1669. Gilbert Burnet, D.D.	1778. William Wight, D.D.
1674. David Liddell.	1782. Robert Findlay, D.D.
1682. Alexander Ross, D.D.	1814. Stevenson Macgill, D.D.
1688. James Wemyss, D.D.	1840. Alexander Hill, D.D.
1692. James Wodrow.	1862. John Caird, D.D.
1708. John Simson.	1873. William Purdie Dickson, D.D., LL.D.
1740. Michael Potter.	
1895. WILLIAM HASTIE, D.D.	

The course of Theology extends over three sessions.

The class meets on five days of the week, in two divisions, the Senior at 11 A.M. and the Junior at 12 o'clock.

The subjects treated in the Lectures during the three sessions are—(1) Theology as a Science (Theological Introduction and Encyclopaedia); (2) Apologetics; (3) Philosophy of Religion; (4) The Comparative History of Religions; (5) Biblical Theology; (6) Critical History of Christian Doctrines; (7) Systematic Theology (Dogmatics and Ethics). Essays and Discourses are prescribed to the students. Examinations on the studies of the class will be held at intervals during the session.

PASTORAL TRAINING.—By a recent arrangement six Lectures on this subject will be given by a Lecturer appointed by the General Assembly.

HEBREW AND SEMITIC LANGUAGES.

This Professorship was founded by Queen Anne, 1709, under the title Oriental Languages. It is now designated Hebrew and Semitic Languages, in accordance with Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court, and is a member not only of the Faculty of Divinity, but also, since 1893, of the Faculty of Arts.

Professors.

1709. Charles Morthland.	1761. Robert Trail, D.D.
1745. Alexander Dunlop, M.A.	1761. Patrick Cumin, LL.D.
1751. William Rouet.	1814. Gavin Gibb, D.D.
1753. George Muirhead.	1831. William Fleming, D.D.
1755. John Anderson, M.A.	1839. George Grey, D.D.
1757. James Buchanan, M.A.	1850. Duncan H. Weir, D.D.
1877. JAMES ROBERTSON, D.D.	

By Ordinance No. 11 of the Universities Commission (1889) "Hebrew" and "Arabic or Syriac" are now included among the departments of study for graduation in Arts, and "Semitic Languages" among those for graduation with Honours.

The existing regulations of the Church of Scotland require all students of Divinity to give attendance on Hebrew for two sessions. The following are the arrangements for session 1899-1900 :—

I.—*Junior Class (Hebrew)*, five days in the week at 10 A.M.
(1) Davidson's *Introductory Hebrew Grammar*, with the Exercises; (2) Readings from the easier books of Scripture; (3) Lectures on Hebrew Archaeology.

II.—*Senior Class (Hebrew)*, five days in the week at 9 A.M., and Tuesdays and Thursdays at 12 noon. (1) Readings in the Hebrew Scriptures; (2) Exercises in Unpointed Text and Translations from English; (3) Study of the Syntax and the Accents; (4) Revisal and extended study of Grammar.

In each of these classes there will be daily oral examinations, weekly written exercises, and four written examinations during the session. In the Senior Class, at the 9 o'clock hour, the readings will be from the books of Haggai, Zechariah, and Malachi, and Psalms I.—XLI. At 12 o'clock on Tuesdays there will be prelections on the book of Micah, and on Thursdays lectures on History and Introduction, with particular reference to the books read in the class. All students of Divinity enrolled in the class are required to attend at both hours.

The Senior Hebrew is appointed as the qualifying class for graduation in Arts. Before attending the class for this purpose, students are required by the Ordinance No. 11, sect. iv., 3, to pass a preliminary examination in Hebrew "on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination." Students

presenting themselves for this examination will be expected to know as much as is implied in the work of the Junior Hebrew Class, and will be examined in grammar, and in translation both from Hebrew into English and from English into Hebrew.

III.—A class, or classes in *Arabic*, or *Syriac*, to meet at hours that may be found most suitable, will also be formed, if students offer.

ECCLESIASTICAL HISTORY.

The Professorship of Ecclesiastical History was founded by George I., in the year 1716, but no appointment was made to the Chair till the year 1720. The Professor is appointed by the Crown.

Professors.

1721. William Anderson.	1841. Jas. Seaton Reid, D.D.
1752. William Ronet.	1851. Thos. T. Jackson, D.D.
1762. William Wight, D.D.	1874. William Lee, D.D.
1778. Hugh M'Leod, D.D.	1886. Robert Herbert Story,
1807 ¹ . William M'Turk, D.D.	D.D., LL.D.

1898. JAMES COOPER, D.D.

The course extends over two sessions, and embraces two series of lectures as well as oral and written examinations. The Junior and Senior Classes meet at separate hours, the Junior from 11 to 12 o'clock, the Senior from 12 to 1 o'clock.

The subjects treated in the Lectures during the two sessions will be :

I. JUNIOR DIVISION.—(1) The History of the Church Catholic from the Day of Pentecost to the Division between East and West; (2) The Acts of the Apostles. Books recommended—Kurtz's *Church History*; Ramsay's *The Church in the Roman Empire, before A.D. 170*, and *S. Paul the Traveller and the Roman Citizen*; Pullan's *History of Early Christianity*; Gibbon; The Apostolic Fathers; Gwatkin's *Selections from Early Christian Writers*.

II. SENIOR DIVISION.—(1) The History of the Church of Scotland; (2) The History of the Church of England; (3) Brief Courses of Lectures on the History of the Church of Ireland; (4) Important Epochs in the History of the Church on the Continent and in the East.

¹ Dr. M'Turk was assistant and successor to Dr. M'Leod from 6th March, 1797.

Books recommended—Grub, Cunningham, or Stephen, on the Ecclesiastical History of Scotland; Skene's *Celtic Scotland*; Macgregor's *Saint Columba*; Bede's *Ecclesiastical History of England* (Giles' translation); Wakeman's *History of the Church of England*. Students are advised to procure the books by Kurtz, Pullan, Gwatkin, Macgregor, Bede, and Wakeman; the others may be consulted in the Library.

The following subjects have been prescribed for Essays to be written during the summer of 1899: The Life and Letters of S. Cyprian; Ecclesiastical Miracles of the Third and Fourth Centuries; The Poems of S. Gregory Nazianzen; S. Chrysostom, *De Sacerdotio*; The Preaching of S. Augustine; Christian Worship in the Fourth Century; The "Tome" of S. Leo—translation with notes; The Hymns of S. Ambrose—metrical translation with theological notes.

DIVINITY AND BIBLICAL CRITICISM.

This Professorship was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861. The Professor is appointed by the Crown.

Professors.

1863. William P. Dickson, D.D.

1873. WILLIAM STEWART, D.D.

This class will meet on five days of the week at 10 A.M.

The course of lectures is arranged to extend over two sessions; and the class should accordingly be attended in two consecutive years.

The lectures in 1899-1900 will treat of the principles of Textual Criticism, and of some portions of New Testament Introduction.

The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament.

Essays on subjects suggested by the work of the class are prescribed at intervals during the session, and the progress of the students is further tested by examinations, partly oral and partly written.

Class of New Testament Greek.—This tutorial class is intended for those who are preparing to pass the examination on the *New Testament in Greek* previous to entering the Divinity

Hall, and for those who, with a view to the Exit Examination at the close of the Divinity course, desire to extend their knowledge of New Testament Greek. In the Exit Examination all students, both Bachelors of Divinity and others, are required to show proficiency in reading the New Testament in Greek *ad aperturam*. The Class will be formed only if a sufficient number of students present themselves, and will meet on three days of the week, viz., Monday, Wednesday, and Friday at 9 A.M.

IV.—DEMONSTRATORSHIPS, ETC.

THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

Demonstrator.

1875. JAMES THOMSON BOTTOMLEY, M.A., D.Sc., F.R.S.

THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In January, 1877, the late Dr. Henry Muirhead of Longdales, Bothwell Parish, and afterwards of Cambuslang, presented to the University the sum of £2,100, and in November,

1879, a further sum of £400, to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows:—

1. That the title of the appointment be “The Muirhead Demonstrator of Physiology.”

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.

3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.

4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.

5. That the incumbent will be expected to devote his entire time to the duties of the appointment.

6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

Present Demonstrator.

WILLIAM BRODIE BRODIE, M.B., C.M.

THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations, drawn in terms of the Founder's will, were adopted by the Senate on 28th February, 1889:—

1. The Demonstratorship shall be held for three years, and

shall be open to the candidate who in the three years intervening between each appointment shall have passed the Degree of B.Sc. with Honours, or, in the event of several candidates obtaining Honours, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest; but in the event of no candidate attaining to Honours, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, provided his average of marks over all the said subjects is not less than 70 per cent., but any candidate who fails to obtain at least 70 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the character of his lectures, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be :—

(1) To deliver two courses of lectures—twenty in the winter, twenty in the summer session—(a) on Mineralogy and Petralogy, or (b) on Palæontology, or (c) on Physical Geography. These lectures to be accompanied by Demonstrations on specimens selected from the Hunterian collections with the consent of the Keeper.

(2) To give Field Demonstrations of Geology and Petralogy, under the direction of the Professor of Natural History (or of Geology when that Chair shall be founded).

(3) To carry on original work in any department of Geological Science which he may select, obtaining therein such assistance by specimens as the Keeper of the Museum shall find it in his power to give.

4. These courses of lectures may be attended (a) by matriculated students of Geology, free; (b) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 1s. for each course, or such higher fee as the University Court may fix; (c) by any member

of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

The first appointment was made in April, 1889; in the ordinary course an appointment should have been made in April, 1895, on the results of the examinations for B.Sc., held between May, 1892, and April, 1895, but there was no one eligible in terms of the regulations. An appointment would have been made in April, 1896, had an eligible candidate appeared.

Present Demonstrator.

1897. ALEXANDER VEITCH LOTHIAN, M.A., B.Sc.

GIFFORD LECTURESHIP ON NATURAL THEOLOGY.

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, “the Knowledge of God, the Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising.” The Senate are the Patrons. The Lecturer is appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of

Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matriculated students and others may attend the Lectures.

1888. Professor Max Müller.

1892. Principal Caird, D.D., LL.D.

1893. Professor William Wallace, M.A.

1895. Principal Caird, D.D., LL.D.

1896. Professor Alexander B. Bruce, D.D.

1898. Professor MICHAEL FOSTER, M.D., LL.D.

M'CALLUM CELTIC LECTURESHIP.

The late Rev. Archibald Kelly M'Callum, LL.D., by his holograph will, dated 8th March, 1881, to which were attached three codicils (the last dated 27th January, 1892), directed his Trustees, among other purposes, to devote an annual sum to a Lectureship, or a course of not fewer than fifteen Lectures, on Celtic Literature. He left detailed directions as to certain subjects which were to be among those discussed. The Lecturer will be appointed by the University Court for a period of three years, and will be eligible for re-election after a subsequent appointment for three years has been made. Matriculated students and others may attend the Lectures. Dr. M'Callum also directed that his library should be handed over to the University as a nucleus for a Celtic Library for the use of the Lecturers and such students as may attend the Lectures, and any others interested in Celtic Literature. The Library is to be kept separate and designated "The Celtic Lectureship Library," the sum of £10 to be annually expended in making additions thereto.

*V.—WOMEN'S DEPARTMENT.**QUEEN MARGARET COLLEGE.*

In February, 1892, the Universities Commission issued an Ordinance (No. 18), empowering the Scottish University Courts to make provision within the Universities for the instruction of women, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. The Council of Queen Margaret College, having considered the provisions of this ordinance, came to the conclusion that the purpose for which the College had been instituted would be best served by making over their work to the University of Glasgow. They accordingly, with the concurrence of Mrs. Elder, the proprietrix of the buildings and grounds hitherto occupied by the College, offered to transfer to the University Court these buildings and grounds, and the endowments (present and prospective), on condition that these should be devoted to the establishment and maintenance of University Classes for women exclusively. The University Court, after consultation with the Senate, having resolved to exercise the power conferred by Ordinance No. 18, and to provide University instruction for women mainly by the institution of separate classes, agreed to accept the offer made by Queen Margaret College, and remitted to a Committee to take the necessary steps for completing the transfer. In virtue of this arrangement the teachers in Queen Margaret College were appointed by the University Court, and the students in session 1892-93 were admitted matriculated students of the University. In 1893 the College was dissolved, and the funds were handed over to the University Court, but the name "Queen Margaret College" survives as designating the part of the University buildings and grounds which is devoted to the education of women.

The classes in Queen Margaret College will meet as follows daily, unless otherwise specified :—

WINTER SESSION 1899-1900.

I.—ARTS.

THURSDAY, 19TH OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Latin, Class I.,</i>	9.45 a.m.,	£3 3	PROF. RAMSAY and
— <i>Class II.,</i>	3 p.m.,	3 3	Mr. D. Rankin.
<i>Greek, Class I.,</i>	12 noon,	3 3	PROF. MURRAY and
— <i>Class II.,</i>	8.45 a.m.,	3 3	Mr. G. Macdonald.
<i>English Language and Literature,</i> }	2 p.m.,	3 3 ¹	Mr. A. A. Jack.
<i>French Language and Literature,</i> }	10 a.m.,	3 3	M. Charles Martin.
<i>German Language and Literature,</i> }	11 a.m.,	3 3	Dr. A. Tille.
<i>Logic,</i> ²	12 noon,	3 3	Mr. N. D. Smith.
<i>Logic,</i> ² (at the University).	9 a.m.,	3 3	PROF. ADAMSON.
<i>Moral Philosophy,</i> ³	11 a.m.,	3 3	Mr. R. A. Duff.
<i>Moral Philosophy</i> ³ (at the University), 8 a.m.,		3 3	PROF. JONES.
<i>Political Economy</i> (Do.),	2 p.m.,	3 3	PROF. SMART.
<i>Education</i> (Do.),	3.30 p.m.,	3 3	Mr. Adams.
<i>History</i> (Do.),	10 a.m.,	3 3	PROF. LODGE.
<i>Mathematics Class I.,</i>	8.45 a.m.,	3 3	PROF. JACK and Dr. Carslaw.
— — — — — <i>Class II.,</i>	2 p.m.,	3 3	PROF. JACK and Mr. Philip.
<i>Natural Philosophy,</i>	3 p.m.,	4 4 ¹	Prof. Blyth.
<i>Physical Laboratory,</i>	Sat., 10 a.m. to 12 noon,		
<i>Chemistry,</i>	12 noon,	3 3 ¹	Mr. T. Gray
<i>Chemical Laboratory,</i>	10 a.m. to 1 p.m.,	£3 3 to 5 5	

II.—MEDICINE.

THURSDAY, 19TH OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Chemistry,</i>	12 noon,	£3 3 ¹	Mr. T. Gray.
<i>Chemical Laboratory,</i>	10 a.m. to 1 p.m.,	£3 3 to 5 5	
<i>Practical Chemistry,</i>	(9-11 a.m., Tues. and Thurs.,)	3 3 ¹	
<i>Physics,</i>	(3 p.m., Mon., Wed., and Fri.,)	3 3 ¹	Prof. Blyth.
<i>Physical Laboratory,</i>	10-12, Saturdays,		
<i>Anatomy, Junior,</i>	11 a.m.,	3 3 ¹	Dr. T. H. Bryce.
— — — — — <i>Senior,</i>	3.15 p.m.,	3 3 ¹	
<i>Practical Anatomy,</i>	9 a.m. to 5 p.m.,	3 3 ⁵	PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Physiology,</i>	2 p.m.,	3 3 ¹	

¹ Fee for a second or subsequent session, £2 2s.² Women students may select either class of Logic.³ Women students may select either class of Moral Philosophy.⁴ Fee for a second or subsequent session, £3 3s.⁵ Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Materia Medica and Therapeutics,</i> }	4 p.m.,	3 3 ¹	Dr. Maclennan.
<i>Pathology, Systematic,</i>	8 a.m.,	3 3 ¹	Dr. Workman.
<i>Surgery,</i>	4 p.m.,	3 3 ¹	Dr. Pringle.
<i>Clinical Surgery,</i>	9 a.m.,	(see Hospitals).	
<i>Clinical Medicine,</i>	9 a.m.,	(see Hospitals).	
<i>Midwifery,</i>	12 noon,	3 3 ¹	{ PROFESSOR CAMERON and Dr. J. M. M. Kerr.

SUMMER SESSION, 1900.

MEDICINE.

TUESDAY, 24TH APRIL.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Botany,</i>	11 a.m.,	£3 3 ¹	} Mr. W. H. Lang.
<i>Practical Botany,</i>	3.30 p.m.,	3 3 ¹	
<i>Zoology,</i>	1 p.m.,	3 3 ¹	} PROFESSOR YOUNG and Mr. J. Rankin.
<i>Practical Zoology,</i>	2 p.m.,	3 3 ¹	
<i>Practical Anatomy,</i>	9 a.m. to 5 p.m.,	2 2 ²	} Dr. T. H. Bryce.
<i>Embryology,</i>	{ 11 a.m., Mon., Tues., Wed., Thurs., }	2 2	
<i>Practical Anatomy and Embryology, if taken together,</i>		3 3	
<i>Practical Pharmacy,</i>	10.30 a.m.,	3 3 ¹	Dr. Maclennan.
<i>Practical Physiology,</i>	2 p.m.,	3 3 ¹	{ PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Forensic Medicine,</i>	12.30 p.m.,	3 3 ¹	
<i>Practical Pathology,</i>	10.30 a.m.,	3 3 ¹	Dr. Workman.
<i>Insanity,</i>	{ 12 noon, Wed., University, at Gartnavel 1 day weekly }	2 2	Dr. Yellowlees.
<i>Diseases of the Eye,</i>	{ 4 p.m., Tues. and Fri., and Clinique, 1-4 p.m. on Mon. and Wed., and 2 p.m. on Th. }	2 2	Dr. A. M. Ramsay.

NOTE.—The preceding tables give the names of the teachers and the class-hours as in 1898-99. Some alterations may be found necessary in 1899-1900.

HOSPITALS.—Royal Infirmary—First year, £10 10s. ; Second year, £10 10s. ; six months, £6 6s. ; three months, £4 4s. Royal Hospital for Sick Children—twelve months, £1 1s. Glasgow Maternity Hospital—£2 2s.

SCIENCE CLASSES.—Of the subjects above enumerated the following are also in the Faculty of Science, viz.:—Mathematics, Natural Philosophy, Chemistry, Botany, Zoology, Anatomy, Physiology, and attendance upon the lectures and in the practical classes qualifies for graduation in Science.

The Honours Classes in Arts and the Higher Classes in Science at the University are open to women.

The arrangements for the classes in Queen Margaret College are similar to those of the classes for men, with the exception of English, French, German, Logic, Moral Philosophy,

¹ Fee for a second or subsequent session, £2 2s.

² Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

and Natural Philosophy, the arrangements for which are as follows:—

ENGLISH LANGUAGE AND LITERATURE.

Lecturer.

1895. A. A. JACK, M.A., LL.M.

The work of the class will comprise the following subjects:—

1. The Elizabethan Drama, with special reference to Shakespeare. The plays dealt with at length will be the following: Marlowe's *Dr. Faustus* and *Edward II.*; Shakespeare's *Two Gentlemen of Verona*, *Richard II.*, *Much Ado About Nothing*, *As You Like It*, *Hamlet*, *Othello*, *King Lear*, *Macbeth*, *Coriolanus*, *Tempest*; Jonson's *Alchemist*; Massinger's *New Way to Pay Old Debts*; Webster's *Duchess of Malji*; Milton's *Samson Agonistes*. All the non-Shakespearian plays except *Samson Agonistes* will be found in Nimmo's *British Dramatists*.
2. English Composition.
3. The Outlines of English Philology.
4. Palgrave's *Golden Treasury of Songs and Lyrics* (First Series), Books III. and IV.

Subject 1 will be taken on Mondays, Fridays, and alternate Wednesdays at 2 P.M., and the class which meets on these days will be called the Literature Class. Subjects 2, 3, and 4 will be taken on Tuesdays, Thursdays, and alternate Wednesdays at 2 P.M., and the class which meets on these days will be called the Language Class. Students who take English for purposes of graduation must attend both classes, but students who do not intend to graduate may take the Language Class alone, or (if they have attained the age of 18 years) the Literature Class alone. The age limit may be dispensed with on certain conditions. The fee for the Language Class or the Literature Class alone is £2 2s.

Books recommended for summer reading:

1. Mr. Stopford Brooke's *Primer of English Literature*; Professor Dowden's *Primer on Shakespeare*; Hazlitt's *Elizabethan Literature*, and *Characters of Shakespeare*.
2. Professor Nichol's *Composition Primer* (Macmillan).
3. Mr. Champney's *History of English* (Rivington).

For further details as to the work of these classes, and as to the Honours Class, see p. 66. For Vacation work, and for the Nichol Memorial Prize, see Index.

FRENCH LANGUAGE AND LITERATURE.

Lecturers.

1895. Alfred Mercier, L.-ès-L.

1898. CHARLES MARTIN, M.A. (Paris).

The class meets daily at 10 a.m., and the course qualifies for graduation in Arts.

The work of the classes will comprise the following subjects:—

A. *Literature*.—Mondays and Fridays, and alternate Wednesdays. *Mondays*—A course of lectures on *Le Théâtre en France à l'époque romantique*: A. de Vigny, Victor Hugo, Alexandre Dumas. *Fridays*—Special study of *La Fontaine, Fables* (Livre I.); Molière, *Le Misanthrope*; Voltaire, *Lettres anglaises*; Lamartine, *Harmonies poétiques et religieuses*; George Sand, *La petite Fadette*. *Alternate Wednesdays*—Literary essays will be read and corrected.

B. *Language*.—Tuesdays and Thursdays, and alternate Wednesdays. I. Translations into and from French will be corrected. II. Reading and translation, with commentaries, of selected pieces of modern poets. III. History of the French Language; Historical Grammar.

Students who take French for purposes of graduation must attend both classes, but students who do not intend to graduate may take the Language Class alone or the Literature Class alone. The fee for the Language Class alone or the Literature Class alone is £2 2s.

Honours Class.—See p. 67.

GERMAN LANGUAGE AND LITERATURE.

Lecturer.

ALEXANDER TILLE, Ph.D.

The German Ordinary Class meets daily at 11 a.m., and the course, which extends to one hundred meetings, qualifies for graduation in Arts. Students who do not intend to graduate may take either the Literature Class or the Language Class alone. The fee for one class alone is £2 2s.

A. *Language*.—Fifty lectures in English, Mondays, Thursdays, and alternate Wednesdays. *Mondays*—Grammar of the Modern German Language, with special reference to the relationship to English (20 lectures). Text-book—Brandt, *A Grammar of the German Language* (Boston, 1895). *Thursdays*

—Reading of Goethe's *Goetz*, *Iphigenie*, *Hermann und Dorothea*, *Dichtung und Wahrheit*, *Reineke Fuchs*, *Faust I. und II.*; Schiller's *Balladen*, *Kabale und Liebe*, *Don Karlos*, *Braut von Messina*, *Jungfrau von Orléans*, *Maria Stuart*, *Wallenstein* (20 lectures). *Alternate Wednesdays*—Translation into German of Stevenson's *Virginibus Puerisque* (10 lectures).

B. *Literature*.—Fifty lectures in German, Tuesdays, Fridays, and alternate Wednesdays. *Tuesdays* and *Fridays*—Goethe and Schiller (40 lectures). *Alternate Wednesdays*—Discussion in German of selected works of the two poets (10 lectures). Text-books—Karl Gödeke, *Goethe's Leben*; Karoline von Wolzogen, *Schiller's Leben*.

Honours Class. See p. 68.

LOGIC.

Lecturer.

NORMAN D. SMITH, M.A.

This class meets daily at 12 noon, and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class includes the subjects stated in the syllabus of the class of Logic and Rhetoric (see p. 69).

MORAL PHILOSOPHY.

Lecturer.

ROBERT A. DUFF, M.A.

This class meets daily at 11 a.m., and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class includes the subjects stated in the syllabus of the class of Moral Philosophy (see p. 69).

NATURAL PHILOSOPHY (PHYSICS).

Lecturer.

JAMES BLYTH, M.A., F.R.S.E.

This class will meet daily at 3 p.m., except on Saturdays; also, for practical work, on Saturdays, 10 to 12. The course will include:—

(1) Experimental Physics (Properties of Matter, Sound, Heat, Light, Magnetism, Static Electricity, Voltaic Electricity, Electro-Magnetism), Mondays, Wednesdays, and Fridays. The Lectures will be fully illustrated by experiment.

(2) Theoretical Mechanics (Elementary Kinematics, Elementary Dynamics), Tuesdays and Thursdays.

(3) Practical Physics, Saturdays, 10 to 12. The students will work practically in the Laboratory, and will be taught the construction and use of physical apparatus generally, and will also be required to employ the various instruments, so as to verify natural laws and obtain numerical results.

Text-book.—Balfour Stewart's *Elementary Physics* or Knott's *Elementary Physics*.

Students intending to take a Degree in Arts must take the whole course. The requirements of students preparing for Degrees in Medicine will be met by the first division of the course, and by attending three days weekly, viz., Mondays, Wednesdays, and Fridays.

VI.—SPECIAL STUDY AND RESEARCH.

In Ordinance No. 61, the Universities Commission (1889) made the following regulations for the encouragement of special study and research, and for the appointment of Research Fellows :—

I. It shall be in the power of the Senatus Academicus in each University, with the approval of the University Court, to make regulations under which graduates of Scottish Universities or of other Universities recognized by the University Court for the purposes of this ordinance, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University.

II. It shall be the duty of the Senatus Academicus in each University—(1) To receive and decide upon all applications for admission to prosecute special study or research ; (2) To prepare a list of all persons so admitted (hereinafter referred to as Research Students) ; (3) To make regulations for the supervision of their work ; (4) To satisfy themselves from time to time that the Research Students are carrying on their work in the University in a satisfactory manner ; (5) To suspend or

exclude from any course any student whose conduct or progress is unsatisfactory.

III. Every applicant for admission must send in to the *Senatus Academicus* a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity, and general qualifications.

IV. Any application for admission shall be in the first instance referred by the *Senatus Academicus* to the appropriate Faculty, or to a Committee appointed by the *Senatus*; one member of the Committee shall always be a Professor or Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the Committee who has not satisfied them by examination or otherwise that he is qualified to prosecute the proposed line of study or research, and further—(a) That his proposed line of study or research is a fit and proper one; (b) That he possesses a good general education; (c) That he is of good character; (d) That he proposes to prosecute his studies or research during a period to be approved by the *Senatus Academicus*. The Faculty or the Committee shall make a report to the *Senatus Academicus* upon each application. It shall also be their duty, subject to the regulations of the *Senatus Academicus*, to provide for the supervision of the Research Student's work, and to report at least once a year to the *Senatus* as to his progress and conduct. The *Senatus* shall then determine whether he shall remain a Research Student.

V. Every Research Student shall be required to matriculate each year, paying the ordinary fee.

VI. Research Students shall have access to and the use of the University Laboratories and Museums, under such conditions as to payment and otherwise as the University Court, after consultation with the *Senatus Academicus*, may determine.

Under this section the following regulations have been made:—1. In each laboratory each Research Student shall make payment of a sum which is estimated by the Professor as sufficient to cover the ordinary expenses incident to the Research Student's work. Apparatus and material beyond what is included in the ordinary operations of the laboratory shall be charged to the Student, unless the Professor judges that such

apparatus and material will be a useful addition to the laboratory. But it shall be in the power of each Professor to propose to the University Court in any particular case that these payments may be remitted in whole or in part. 2. In all matters of discipline the Research Student shall be under the control of the Professor in whose laboratory he works. 3. All papers arising out of work done in a laboratory shall be submitted to the Professor before publication, and in all such publications a due recognition of the laboratory shall be inserted.

VII. The title of Research Fellow may be conferred by the Senatus Academicus, with the approval of the University Court, on Research Students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit to any Research Fellow under the powers of Ordinance 25, Section XI., sub-section 8.

- VIII. (1) The Research Fellows shall be appointed as aforesaid after consideration of the report or reports submitted in terms of Section IV. hereof.
- (2) The title of Research Fellow may be conferred either at the commencement of the Research Student's course of study or research, or at any time during its progress, as the Senatus Academicus may determine.
- (3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.
- (4) Research Students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

IX. Nothing herein contained shall prejudice the right of Research Students to such Fellowships, Scholarships, or Prizes as may be open to them by Ordinance or Deed of Foundation.

X. The University Court may, subject to the provisions of Ordinance No. 25, Section XI., sub-section 8, provide such sums as it may think fit in aid of the expenses of special study or research.

Research Fellow—Hugh Galt, M.B., C.M., 1898.

Research Students—Hugh Galt, M.B., C.M., 1898; Vincent J. Blyth, 1898; Thomas Gray, B.Sc., 1898.

VII.—LIBRARIES, MUSEUM, BOTANIC GARDEN.

UNIVERSITY LIBRARY.

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Librarian is appointed by the University Court. The Library is under the immediate superintendence of a Committee consisting of three members of the University or others, not being members of Senate, appointed by the University Court, and of six members of Senate appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports.

The Library is always increasing by donations and by a grant of £707 per annum, formerly paid by the Treasury, as compensation for the loss of the Stationers' Hall privilege, and now received from the University Court.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following:—

The Collection bequeathed to the University by the late W. EUING, Esq., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The Library of the late SIR WILLIAM HAMILTON, Professor of Logic in the University of Edinburgh, amounting to about 8,000 volumes. This collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the subscribers was inserted in the *Calendar* for 1879-80.

The WALKER-ARNOTT Botanical Library of 970 volumes.

The Musical Library of the late THOMAS L. STILLIE, Esq., numbering 760 volumes. It contains the works of the chief composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The collection of books on Palestine, which belonged to the late DR. A. B. M'GRIGOR, consisting of 655 volumes of works, illustrating the natural and civil history, topography, and antiquities of Jerusalem and the Holy Land. This collection was presented along with 83 volumes, containing about 1,000 pamphlets, by Alexander M'Grigor, Esq.

The library of the REV. A. K. MACCALLUM, LL.D., containing over 3,000 volumes, bequeathed to the University—along with an annual sum of £10 to be spent on its increase—as the nucleus of a Celtic library.

A collection of works, numbering over 500 volumes, relating to Mediaeval Philosophy, which formed part of the library of the late PROFESSOR VEITCH—presented by Mrs. Veitch.

The works on Mining belonging to the late ALEX. MACDONALD, Esq., M.P.; works on Engineering from the libraries of the late PROFESSORS LEWIS GORDON and MACQUORN RANKINE; works on Oriental literature from the library of the late PROFESSOR WEIR; a large collection of medical works, theses, and pamphlets, from the late PROFESSOR ALLEN THOMSON; 800 volumes of general literature from the library of the late F. A. ECK, Esq.; over 1,000 volumes—selected from the library of the late JAMES HOTSON, merchant—presented by DR. THOMAS REID; and numerous works of reference for the Reading Room from the late DR. A. B. M'GRIGOR.

Wall or table cases were given by William S. Dixon, Esq. (1); William Euing, Esq. (1); Professor Rainy, M.D. (1); Professor Sir James Robertson, LL.D. (2); and Alex. White-law, Esq., M.P. (2).

The custody and management of the Library are regulated by Ordinance No. 64, and by the rules framed under that Ordinance and approved by the University Court on 14th November, 1895. The following are the principal regulations relative to the use of the Library:—

Books shall not be given out except to the borrower in person, or to some one having written authority from him.

It shall be in the power of the Librarian at any time to withdraw any work from circulation, subject to appeal to the Library Committee; and to call in any book from any borrower after the lapse of the period for which such borrower is entitled to retain it, upon receiving a written request to do so from any person entitled to the use of the Library. In the notice of recall a period of not less than three clear days shall be

allowed for making the return, and the penalties leviable for neglect shall be specified in the notice.

The following classes of work, viz.:—Manuscripts, rare books or books in any way difficult to be replaced, works of reference, separate maps or plates, unbound music or parts of works, pamphlets or books not sufficiently protected by the binding, shall not be given out except on an order of, and under conditions to be fixed by, either (a) the Senate, (b) the Library Committee, or (c) three Members of the Library Committee, according as, in the discretion of the Librarian, the special circumstances of each case may require.

Each member of the following classes of readers shall be allowed to borrow, and to have in his, or her, possession at one time the under-mentioned number of volumes, but not more :—

Each Member of the *Senatus Academicus*, thirty volumes.

Each University Lecturer, twenty volumes.

Each Assistant and Examiner, and each holder of a Teaching Fellowship, fifteen volumes.

The Librarian, ten volumes; and each Assistant-Librarian, five volumes.

Each Extra-Academical Teacher, recognized by the University Court, in the town in which the University is situated, ten volumes.

Each retired Principal or Professor, ten volumes.

Each Member of the University Court, during his tenure of office, ten volumes.

Each Member of the General Council of any Scottish University (and each Graduate under the age of twenty-one years) in each year in which he, or she, shall have paid a subscription to the Library of ten shillings and sixpence, six volumes.

Provided that no Member of the University Court or of the General Council shall be entitled to obtain from the University Library books required by the teachers or students of the University in the prosecution of academic work and research, and that it shall be in the discretion of the Librarian, subject to appeal to the Library Committee, to decide from time to time what books are so required.

Any Member of the General Council of any Scottish University shall be allowed to compound for the Library subscription by a single payment of Five Guineas, which shall secure to him, or her, for life the same privileges as would accrue from the annual payments.

It shall be in the power of the Library Committee from time to time to grant the use of the Library to persons who may not be Members of the University, for purposes of literary research, and the names of those privileged readers shall be reported annually to the University Court. All grants under this section shall terminate with the close of the reading year, but shall be renewable if again applied for. Each special reader shall pay an annual subscription of ten shillings and sixpence, and shall be entitled to borrow six volumes at one time, but not more.

Subject always to the provision as to the return of books for the annual inspection, all persons entitled to the use of the Library under the fore-

going regulations shall have the right to retain each book borrowed during the winter session for one month, and each book borrowed during the summer session for two months, from the date of borrowing ; and may further retain each book until it shall have been recalled by the Librarian.

Every Matriculated student, or other Student admitted by ordinance to the use of the Library, shall be entitled to have in his, or her, possession at one time, during the winter session, four volumes but not more, and during the summer session and vacation, six volumes but not more. Every student shall have the right—subject to the return of books for the inspection—to retain any book during the winter session for two weeks, and during the summer session for four weeks, from the date of borrowing, and may further retain each book until it shall have been recalled by the Librarian. But no student shall be permitted to borrow any book from the Library until he, or she, shall have lodged with the Librarian a deposit of £1 in security for the due return of the books and the payment of any fines which may be incurred.

During the winter session such students only as are attending the English Literature classes shall be allowed to borrow works of fiction in English, and then only to the extent of two volumes at one time. During the summer session and vacation students may borrow three volumes of fiction at one time, but not more.

The reading term for Students, Members of General Council, and Special Readers, shall begin with the commencement of the winter session in each year, and terminate with the close of the autumn vacation following.

Readers shall not be allowed to borrow books in more than one capacity.

A general inspection of the Library shall take place in April, beginning with the seventh, and continuing for eight lawful days thereafter.

All works whatever, and by whomsoever borrowed, shall be returned to the Library before the beginning of the period of the annual inspection under the penalties hereinafter mentioned. The Library shall be wholly closed during the time of the inspection.

If any person shall retain any volume after the commencement of the period of the annual inspection, such person shall incur a fine of one shilling for each volume ; and in the event of any volume not being returned before the close of one week after the last day of the inspection, the fine shall be repeated from week to week until the volume is returned, or until the total amount of the fine shall have reached the sum of ten shillings.

If any person, when required by the Librarian to return a book, shall fail to do so before the expiry of the time specified in the notice, such person shall incur a fine of one shilling for each volume, and thereafter a further penalty of sixpence per day so long as the volume is not returned, or until the total amount of the fine shall have reached the sum of ten shillings.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated,

disfigured by writing on the margin, or otherwise injured, while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

So long as any Library subscription or any fine incurred remains unpaid, and so long as any person continues in possession of a book which he is not entitled to retain, the right of the defaulter to the use of the Library shall be suspended and remain in abeyance.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall.

Visitors on giving their names will be conducted over the Library by an attendant. They are not permitted to enter the Reading-Room during the hours when it is open to students.

No person, except Members of the Teaching Staff, shall otherwise be admitted to the interior of the Library without the special permission of the Curator or Librarian.

All persons, whether readers or visitors, are strictly prohibited from entering the Bays, or taking the books from their places on the shelves.

The Library is open for giving out and receiving back books every lawful day during the winter session from 11 A.M. till 2.30 P.M., except the Christmas and other holidays specially appointed by the University, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the summer it is open on Mondays, Wednesdays, and Fridays from 11.30 A.M. till 2 P.M.

CATALOGUES.

An Author and Subject Index containing the chief books likely to be interesting or useful to Students, and forming a fairly complete guide to the accessions in English of the twenty years preceding 1887, may be purchased by students at the price of One Shilling.

Students and Graduates who are engaged in special research will, on application to the Librarian, have access to the Classified Catalogues, which include also the older literature and works in foreign languages. These catalogues have been arranged by Professor Dickson, Curator of the Library, and the expenses incurred by him in connection with their preparation have been defrayed by the late Dr. A. B. M'Grigor.

READING-ROOM.

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, Saturdays and holidays excepted, during the winter session from 9 A.M. till 4.30 P.M., and during the summer session from 9 A.M. till 2 P.M.

The Room is primarily intended for readers consulting the books of the Special Collection; but so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room :—

Every Matriculated Student who shall at the beginning of the session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without producing his voucher.

Every such student shall on entering apply for a tally entitling him to a seat, shall use it only for the table indicated thereon, and shall personally return it to the Assistant in charge. All readers are required to take at once the seats assigned to them, to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the Room (and Vestibule) with as little noise as possible. Readers shall exhibit their tallies when asked; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading-Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to the Assistant-Librarian in the Vestibule.

The Assistant-Librarian in charge is instructed to report at once to the Library Committee the name of any student transgressing the rules.

Donations to the University Library.

List of Donations from 1st March, 1898, to 28th February, 1899.

Académie de Sciences de Cracovie.—Bulletin international. 1898.

Accademia dei Lincei, Roma.—Atti. Serie 5^a. Memorie. Classe di scienze morali.

Parte 1^a. V. Parte 2^a. VI.—Rendiconti. Classe di scienze fisiche. VII. 1898. Classe di scienze morali. VII. 1898.

Accademia delle scienze fisiche e matematiche di Napoli.—Rendiconto. Serie 3^a. IV. 1898.

Accademia Pontaniana, Napoli.—Atti. Vol. XXVIII.

The Admiralty.—Greenwich observations. 1895.—Greenwich spectroscope results. 1895.—Cape meridian observations. 1892-95.—Annals of the Cape Observatory IV. 1897.—Report of the health of the Navy. 1897.

American Society of Mechanical Engineers.—Transactions. XIX. 1898.

Asiatic Society of Bengal.—Bibliotheca Indica. N.S. Nos. 910-930.

Australian Museum.—Records. III. 4.—Report of Trustees for 1897.

Berwickshire Naturalists' Club.—Proceedings. XVI. 1. 1896.

Biblioteca Nazionale Centrale di Firenze.—Bollettino delle pubblicazioni Italiane. 291-314.

Bombay Observatory.—Magnetical and meteorological observations. 1896.

Boston Public Library.—Monthly bulletin. III. 1898. Annual list of new books. 1897-98.

John Brown, B.Sc.—Nature. LV.-LVIII. 1897-98.—Photographic review of reviews. Vols. I.-V. 1892-96.

Calendars, programmes, or reports have been received from the following institutions:

—Aberdeen University; Auckland University College; Belfast Queen's College; Bologna University; Bombay University; Brown University; Calcutta University; California University; Canterbury College, New Zealand; Cape of Good Hope University; Chicago University; Christiania University; Coimbra University; College of Preceptors, London; Cornell University; Dalhousie University, Halifax; Durham College of Science; Durham College of Medicine; Durham University; Edinburgh University; Edinburgh School of Medicine; Glasgow and West of Scotland Technical College; Gratz University; Harvard University; Heriot-Watt College; Imperial University, Tokyo; Johns Hopkins University; Kolosvar University; McGill University, Montreal; Melbourne University; National University, Athens; New Zealand University; Owens College, Manchester; Padua University; Pharmaceutical Society; Presbyterian College, Halifax; Princeton University; Queen's College Galway; Queen's University, Kingston; Royal College of Surgeons of England; Royal Holloway College; Royal Institute of British Architects; R. Università di Pisa; Royal University of Ireland; St. Petersburg University; Sydney University; Technische Hochschule zu Aachen; Toronto University; Trinity College, London; Turin University; Université de Lyon; University College, Bristol; University College, Liverpool; University College, London; University College, Nottingham; University College of North Wales; University College of Wales; University of Michigan; University of the State of New York; Utrecht University; Vermont University; Victoria University, Canada; Victoria University, Manchester; Vienna University; Yale University; Yorkshire College, Leeds.

Calcutta University.—Tagore law lectures. 1891-92, 1895.

Caledonian Medical Society.—Caledonian Medical Journal. III. 5-9.

Cambridge Philosophical Society.—Transactions. XVI. 4; XVII. 1, 2.—Proceedings. IX. 8, 9; X. 1.

Canadian Institute.—Proceedings. N.S. 1. 4-6.—Transactions. V. 2.

Chartered Accountants of Scotland.—Official directory. 1898.

Chemical Society.—Journal. Nos. 424-435.—Abstract of proceedings. Nos. 190-204.

Cincinnati Chamber of Commerce.—Forty-ninth annual report. 1898.

Clinical Society of London.—Transactions. XXXI. 1898.—Index to Transactions. I.-XXX.

Congregational Union of Scotland.—Year book, 1898-99.

Cornell University Library.—Koch, Catalogue of the Dante collection. Part I.

Cornell University.—The ten-year book. 1868-98.

- Department of Science and Art.—Japanese art. II.—Technical education. Application of funds by Local Authorities. 1898.—Drawing, etc., in elementary day schools. 1897.—Perry, Report on French technical education. 1898.—Directory. 1898.—Prospectus of College of Science. 1898-99.—Art examination papers. 1898. Prospectus of Royal College of Art. 1898.—List of students rewarded; with report of examiners. 1898.—Science examination papers. 1898.—Prospectus of Whitworth scholarships. 1899.—Classified list of photographs. Part I.—Calendar, 1899.—Catalogue of the loan collection of photographs.—Catalogue of the loan collection of lithographs.—Royal College of Science. Inaugural address.
- George Dickson, M.D.—The Practitioner. 1898.—The Scottish Medical and Surgical Journal. 1898.
- Direccion de Estadistica General, Uruguay.—Anuario estadistico. 1896.—Comercio exterior. 1897.
- Direction Général de Statistique Municipale, Buenos Ayres.—Annuaire Statistique. 1897.
- The Editors.—British Guiana medical annual. X. 1898.
- Edinburgh Mathematical Society.—Proceedings. XVI. 1897-98.
- Engineering Society of the School of Practical Science, Toronto.—Papers read before the Society. XI. 1897-98.
- James Finlayson, M.D.—Janus: archives pour l'histoire de médecine. II. 1897-98.—Medical Chronicle. N.S. V.—Brownlee, Reminiscences of Kafir life. 1896.—Stewart, Lovedale, South Africa. 1894.—Medical bibliography and education. 1898.—Last will of Maister Peter Lowe. 1898.—The Boston Browning Society papers. 1886-97.—Browning's prose life of Strafford. 1892.
- Fishery Board for Scotland.—Sixteenth annual report.
- General Assembly of the Church of Scotland.—Schemes of the Church. 1898.
- Geological Survey of Canada.—Annual report. N.S. IX.
- Geological Survey of India.—General report. 1897-98.—Palaeontologia Indica. Series XV. I. 3, 4; II. 1. Series XVI. I. 2, 3. Memoirs, XXVII. 2.—Manual of the geology of India. Part I.
- Glasgow Archaeological Society.—Report. 1897-98.
- Glasgow City Chamberlain.—Municipal and other public accounts. 1898.
- Glasgow Corporation.—Reports on Museums and Galleries for 1897.
- Glasgow Obstetrical and Gynaecological Society.—Transactions. I. 1896-98.
- Governor of Bombay.—Report of the Archaeological Survey of Western India. 1896-97.—Revised list of antiquarian remains in the Bombay Presidency. 1897.
- Graz Universität.—Kraus, Ueber die Vertheilung der Kohlensäure im Blute. 1897.
- Imperial University, Tokio.—Journal of the College of Science. X. 3; XI. 1; XII. 1, 2, 3.—Mittheilungen aus der Medicinischen Facultät. III. 3; IV. 1-4.
- Institution of Civil Engineers.—Minutes of Proceedings. CXXXI.-CXXXIV.—Charters, byelaws, and list of members. 1898.—Brief subject index. CXIX.-CXXXIV.—Report on thermal efficiency of steam engines. 1898.
- Institution of Engineers and Shipbuilders.—Transactions. XLI. 1898.
- Institution of Mechanical Engineers.—Proceedings. 1897, 3, 4; 1898, 1-3.
- Institution of Naval Architects.—Transactions. XXXIX. 1897. XL. 1898.
- James Murray's Asylum, Perth.—Excelsior. 1897-98.—Seventy-first annual report.
- Johns Hopkins University.—Hazen, American opinion of the French Revolution. And 25 other dissertations.
- Johns Hopkins Hospital.—Bulletin. 84, 86-92.
- Kolosvar University.—Acta anni 1897-98. Fasc. II.
- Literary and Philosophical Society of Liverpool.—Proceedings. LII. 1897-98.
- Lloyd's Register of Shipping.—Register book. 1898-99. 2 vols.—Rules and regulations. 1898-99.
- Local Government Board.—Report of the Medical Officer for 1897-98.
- Lords of H.M. Treasury.—The Exchequer Rolls of Scotland. XVIII., XIX.—Calendar of Scottish papers. I.—Acts of Parliament: Public, Local, Private. 1898.
- John C. M'Vail, M.D.—Seventh report to the County Council of Dumbarton.—Seventh report to the County Council of Stirling.
- Manchester Literary and Philosophical Society.—Memoirs and Proceedings. XLII. 2-5.
- Middlesex Hospital, London.—Reports for the year 1896.
- Mineralogical Society. Mineralogical magazine. No. 54.
- Ministero della Pubblica Istruzione, Italia.—Le opere di Galileo Galilei. VII. VIII.
- Le Ministre des travaux publics.—Études des gîtes minéraux de la France. Basin houiller du Pas-de-Calais. II.
- David Murray, LL.D.—A small brass cup found in Rodl. 1893.—I viaggi di

- Marco Polo. 1847.—Menincki, *Thesaurus linguarum orientalium*. 4 vols. 1680.—Menincki, *Completum Thesauri linguarum orientalium*. 1687.—Menincki, *Linguarum orientalium institutiones*. 1680.—Edinburgh Academy. Prize lists. 1830-46. 2 vols.—Finnish prayer book.—Flensburgisches Gesangbuch.—Sewell, New dictionary, English and Dutch. 2 vols. 1891.—Statement and report by Directors of Edinburgh Academy. 1823-25.—Schmeller, *Evangelium des Mathæus in Hochdeutsch des 9^{ten} Jahrhunderts*.—Bunce, *Language of the aborigines of Australia*. 1851.—Richards, *Her Majesty's army*. 2 vols.—Richards, *Indian and Colonial forces*.
- Navy Department, Japan.—Annual report of the health of the Navy. 1895.
- New York Public Library.—Bulletin. II. 1898.
- North London Hospital.—Reports. Surgical and medical cases. 1895.
- Specola Vaticana.—Pubblicazioni. Vol. V.
- Periodicals per Rev. Dr. Dickson.—The Academy. LII.; LIII. Jan.-Mar. 1898.—Nineteenth Century. XLII.; XLIII. Jan.-Mar. 1898.—Critical Review. VII. 1897.
- Pharmaceutical Society.—Journal. 1898.
- The Very Rev. Principal Story.—Inaugural address. Session 1898-99.—Rattigan, *The science of jurisprudence*. 1899.
- Professor Biles.—Address, 17th Nov., 1898.
- Professor Bower, Sc.D.—*Botanisches Centralblatt*. I.-XXXII. in 16 Bden.—Agricultural ledger, Calcutta. 1898. Nos. 1-19.—Bulletin of the Botanical department, Jamaica. V. 2-12. 1898.—Trinidad Botanic Gardens. Bulletin. III. 5-9. 1898. Report for 1897.—Botanical survey of India. Records. I. Nos. 9-11. Report for 1897-98.—Archives de l'Institut Botanique de l'Université de Liège. I.—Gravis, *Recherches sur le tradescentia virginica L.* 1898.—*Naturwissenschaftliche Rundschau*. VIII.-XIII. 1893-98.
- Professor Coats, M.D.—Notes on sea and land. 1898.
- Professor Cooper, D.D.—Transactions of the Aberdeen Ecclesiological Society. XI.
- Emeritus Professor Dickson, D.D.—Palestine Exploration Fund. Quarterly Statement. 1898.—Acts of the Apostles. With notes by T. E. Page. 1886.—Nicholson, *Nightly wanderings in the gardens of the sky*. 1881.—Carlyle, *Moses and the prophets*. 1890.
- Professor Ferguson, LL.D.—The connection of chemistry and medicine. 1890.—The academic element in medicine. 1891. Index to Bibliographical notes on histories of inventions. 1898. Bibliographical notes on histories of inventions. 3rd Supplement.
- Professor Glaister, M.D.—Manual of hygiene. 1897.—The law of infanticide. And 11 other papers.
- Professor Hastie, D.D.—Rückert's Vision of God. Rendered in English rhyme. 1898.—Theology as science. 1899.
- Professor Jack, LL.D.—Proceedings of the London Mathematical Society. Nos. 614-659.
- Professor Lord Kelvin.—*Memorie di matematica delle Societa Italiana delle scienze*. 3rd Serie. XI.—*Mathematische Berichte aus Ungarn*. XIV.—*Acta Societatis scientiarum Fennicae*. XXII., XXIII.—*Anales de la Oficina Meteorologica Argentina*. XII.—*Rozprawy Wydziału filologicznego*. XI., XII. And 124 parts of scientific periodicals.—Keeling, *Some questions in matter and evolution*. 1898.—Pierce, *Life romance of an algebraist*.—Gilman, *University problems*. 1898.—Dewar, *From matter to man*. 1898.—*Electrical hypothesis for the solar system*. 1898.—Tutton, *Compensated interference dilatometer*. And 140 other scientific papers and pamphlets.
- Professor M'Kendrick, M.D.—Robson, *Cases of ovariectomy*. And 52 other pamphlets.—Gilson, *Un nouveau mode nouveau des iles Fiji*. And 50 other pamphlets.—Report of Department of Pathological Chemistry, Univ. Coll., Lond. I.—Collected papers. Physiological Laboratory, Univ. Coll., Lond. VII.-IX.—Collected papers. Physiological Laboratory, King's Coll., Lond. II. III. Transactions of the American Microscopical Society. XIX.
- Professor Robertson, D.D.—Poetry and religion of the Psalms. 1898.
- Professor Stewart, D.D.—Ashley, James and Philip van Artevelde. And 14 other volumes.—The power of the pulpit. And 3 other pamphlets.
- Professor Stockman, M.D.—Literary sources of our pharmacopoeia. And 26 other papers relating to materia medica.
- Professor Young, M.D.—Federici, *La contesa di Agamemnon ed Achille nel libro I. dell'Iliade*.
- The Publishers.—Canadian gazette. 1898.

- The Publishers.—Colonial enterprise. 1898.
 The Publishers.—St. Bartholomew's Hospital journal. V.
 The Publishers.—The liberty review. 1898.
 The Publishers.—The positivists' review. 1898.
 Queensland Branch of the Geographical Society of Australasia.—Proceedings and transactions. XIII.
 Radcliffe Library, Oxford.—Catalogue of books added during 1898.
 Thomas Reid, M.D., LL.D.—Huygens, Oeuvres complètes. VII.—Laplace, Oeuvres complètes. XII. 1898.
 Reports have been received from the following libraries :—Aberdeen Public Library.
 —Boston Public Library, U.S.—Bradford Free Libraries.—Fulham Public Libraries.—Heginbottom Free Library, Ashton-under-Lyne.—John Crerar Library, Chicago.—New York Public Library.—Liverpool Public Libraries.—Newberry Library, Chicago.—Baillie's Institution Free Library.—Public Library and Museum of Victoria.—Rothschild'sche Oeffentliche Bibliothek.—Public Libraries, Newcastle-upon-Tyne.—Stirling's and Glasgow Public Library.—St. Helens Public Libraries.—St. Louis Public Libraries.
 Royal Academy of Medicine in Ireland.—Transactions. XVI.
 Royal Astronomical Society.—Monthly notices. LVIII.
 Royal Institute of Public Health.—Journal of state medicine. VI. 2-7.
 Royal Institute of British Architects.—Journal. V. 9-20; VI. 1-8.
 Royal Irish Academy.—Proceedings. 3rd series. IV. 5; V. 1.—Transactions. XXXI. 1-6.
 Royal Physical Society, Edinburgh.—Proceedings. 1896-97.
 Royal Scottish Academy.—Seventy-first annual report. 1898.
 Royal Scottish Society of Arts.—Transactions. XIV. 4.
 Royal Society of Canada.—Proceedings and transactions. 2nd series. III. 1897.
 Royal Society of Edinburgh.—Indian meteorological memoirs. VII. 6, 7; VIII. 2.—Transactions. XXXVIII. 3, 4; XXXIX. 1.—Proceedings. XXI.
 Royal Society of New South Wales.—Journal and proceedings. XXXI. 1897.—Abstracts of proceedings. Dec. 1897-May, 1898.
 Royal Society of Victoria.—Proceedings. N.S. XI. 1.
 Secretary of State for India.—Cleghorn, Scientific memoirs by Indian medical officers. X. 1897.—The Mahabharata. Parts 87-100.—Rogers, Report on Kala-azar. 1897.—Annual report of the Sanitary Commissioner. 1896.—Report of the Bombay plague committee. 1897-98. 2 vols.—Meteorology of the Bombay Presidency. 1897-98.—Epigraphia Indica. IV. 8; V. 1-4.—Fauna of British India. Birds. III., IV. Moths. IV. Hymenoptera. I.—Seshagiri Sastri, Report on Sanskrit MSS. for 1896-97.—Hrishikesa Sastri, Catalogue of Sanskrit MSS. in Calcutta Sanskrit College. Nos. 8, 9.—Report of Archaeological Survey circle, N.W. Provinces and Oudh. 1897-98.—Archaeological survey of India. N.S. XVI., XVIII. 3, XIX., XXV., XXVI.
 Smithsonian Institution.—Goode, The history of the first half century of the Smithsonian Institution. 1897.—Miscellaneous collections. XXXVII. 1087; XXXIX. 1125; XL. Report. 1895.—Report of the U.S. National Museum. 1895.—Contributions to knowledge. XXIX. 1126.—Annual report of the American Historical Association. 1896.
 Society of Antiquaries of Scotland.—Proceedings. 1896-97.
 Society of Chemical Industry.—Journal. XVII. 1898.
 Society of Public Analysts.—The analyst. XXIII. 1898.
 Surgeon General's Office, U.S. Army.—Index catalogue of the Library. III. 1898.—Report for 1897-98.
 Technische Hochschule zu Aachen.—Feier zur Einweihung des Neubaus für Electrotechnik. 1897.—Borgh. Sociale Friedenspolitik der letzten zehn Jahre. 1898.—Die Uebergabe des Dekorats. Juli, 1898.
 Trustees of the British Museum.—Catalogue of Madrepোরaria. III. 1897.—Terra cotta sarcophagi, Greek and Etruscan. 1898.—The poems of Bacchylides. Facsimile of papyrus. 1897.—Douglas, Japanese books and manuscripts. 1898.—Catalogue of seals. V. 1898.—Binyon, Catalogue of drawings of British artists. 1898.—Kenyon, The poems of Bacchylides. 1897.—Greek papyri. Facsimiles. I. II. 1893-98.—Photographic facsimiles of the Epistles of Clement of Rome. 1856.—Greek papyri. Catalogue with texts. I. II. 1893-98.—Classical texts from papyri. 1891.—Herodas. Facsimile of papyrus. CXXXV. 1892.—Rieu, Supplement to the Catalogue of Arabic manuscripts. 1894.—Rieu, Supplement to Catalogue of Persian manuscripts. 1895.—Catalogue of the cuneiform tablets in the Kouyunjik Collection. II., III., IV. 1891-96.—The Tell-el-Amarna tablets. 1892.—Catalogue of Chinese coins, from 7th century B.C. to A.D. 621.

- 1892.—Subject index of modern works. 1885-95. 2 vols.—Books of reference in the Reading Room. 3rd ed. 1889.—Guide to Exhibition of English medals. 2nd ed. 1891.
- Tuft's College, Massachusetts.—College studies. Nos. 4, 5.
- U.S. Coast and Geodetic Survey.—Annual report. 1896.
- U.S. Commissioner of Education.—Report for 1896-97. Vols. 1, 2.
- U.S. Department of Agriculture.—Year Book. 1897.—Bulletin. No. 50.—Report for 1898.
- U.S. National Museum.—Proceedings. XIX.—Bulletin. No. 39.
- U.S. Geological Survey.—Geological atlas of the United States. Folios 26-37.
- Ungarische Statistische Central-Amt.—Ungarisches statistisches Jahrbuch. 1896.
- Universität zu Wien.—Inaugurationsbericht. 1898.—Bericht über die volksthümlichen Universitäts-vorträge. 1897-98.
- Université de Lille.—Travaux et mémoires. Nos. 15-21.—Atlas. Nos. 1-2. 1892-98.
- University of California.—Bulletin of Agricultural Experiment Station. 116-119.—Hayne, Resistant vines. And 6 other pamphlets.
- University of Nebraska.—Bulletin of Agricultural Experiment Station. Nos. 50-54.
- University of the State of New York.—State Museum reports. 49. 1; 50-1. 1897-98.—State Museum bulletin. IV. 16-18.—State Library report. 78-80. 1897-98.—State Library bulletin. Legislation. 9. Library School. 2. Bibliography. 2-4, 6-14. Extension bulletin. 19-26.
- University of Utrecht.—Van Dis, De Choricij Gazci genere dicendi. And 16 other dissertations.—Werker, Die liquidatie der vennootschap on der firma. And 12 other dissertations.
- University of Toronto.—Handbook of Canada. 1897.—Universities of Canada, Great Britain, and the United States. 1896.—University studies. 1. 2nd series.—History series. 11.—Economic series. 1.—Psychological series. 1.—Biological series. 1.
- Yale University.—Catalogue of the officers and graduates. 1701-1898.—Obituary record of graduates. 1898.
- Medical Faculty of McGill University.—Webster, Biological basis of menstruation. And 12 other medical pamphlets.
- Mr. W. Innes Addison.—Roll of graduates of the University of Glasgow. 1727 to 1897.—List of graduates in medicine of the University of Edinburgh. 1705-1866.
- Kenneth Sylvan Guthrie, A.M.—Soteriology of Jesus.—Philosophy of Plotinos.
- Magnus Maclean, D.Sc.—Electrical engineer. 1.-XXI.
- National Educational Association.—Journal of proceedings and addresses. July, 1896.
- Société des amis de l'Université de Lyon.—Bulletin. XI. 3-8; XII. 1, 2.
- W. Carrick Anderson, M.A.—Contribution to the chemistry of coal. 1898.
- The Syndicate, Cambridge University.—Local examinations. Fortieth annual report, 1897.
- M. Aaron Bernstein.—List of Hebrew abbreviations. 1897.
- Professor Andrew Gray, LL.D.—Treatise on magnetism and electricity. I. 1898.
- T. H. Benton de Witt, Ph.D.—A correspondence . . . urging a study of Progress and poverty. 1898.
- Adolphus A. Jack, M.A.—Essays on the novel. 1897.
- M. Serge Socolow.—Nouvelles recherches astronomiques. 1896.—Des planètes se trouvant au delà de Mercure et de Neptune. 1897.
- P. Barclay, M.A.—A survey of foreign missions. 1897.
- James Burgess, LL.D.—On the definite integral $\frac{2}{\sqrt{\pi}} \int_0^t e^{-t^2} dt$.
- Bertha von der Lage.—Studien zur Genesislegende. I.
- Council of Queen's College, Cork.—Blennerhasset, University education. 1898.
- Alexander Johnston, M.D.—Report of the Glasgow fever and smallpox Hospitals for 1896 and 1897.
- George Lane Mullens, M.D.—Tuberculosis and the public health. 1898.
- David F. Harris, M.B.—Time relations of the voluntary tetanus in man. And 8 other pamphlets.—Proceedings of the Geologists' Association. VI. 1-3.
- James Paton, F.L.S.—Corporation of Glasgow museums and galleries. 1897.
- Sir James D. Marwick, LL.D.—Charters and other documents relating to Glasgow. 1175-1649. 1.—The river Clyde and the harbour of Glasgow. 1898.
- Lord Elphinstone.—The Elphinstone family book. 2 vols. 1897.
- University of Aberdeen.—Minutes of the General Council. I. 1860-97.
- Dieppe Comité de Publicité.—Winter, Dieppe.
- Messrs. MacLehose.—Abney, Sensitiveness of the retina to light. 1897.—Jones, Principal Caird: an address. 1898.

- Mr. H. L. Seligmann.—Herder, Idsen zur Philosophie der Geschichte. 2 Bände. 1812.
 —Liebig, Die Thier-Chemie in ihrer Anwendung auf Physiologie. 1846.—
 Liebig, Die Chemie in ihrer Anwendung auf Agricultur. 1846.
 Iowa Geological Survey.—Report on lead and zinc, etc. 1897.—Annual report. 1896.
 Carnegie, Re-union of Britain and America. 1898.
 Sir William Muir, K.C.S.I.—Cyprian, his life and teaching. 1898.
 Mr. William Kelly.—An exposition of the Gospel of John. 1898.
 Clydesdale Horse Society.—The Clydesdale stud book. XX. 1898.
 School of Practical Science, Toronto.—Papers read before the Engineering Society. 1897-98.
 William Bruce, M.D., LL.D.—Seventh report of the public health of Ross and Cromarty.
 Robert Maclehose, M.A.—Vassar: a college souvenir. 1896.—Catalogue of Vassar College. 1897-98.
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DIVINITY HALL LIBRARY.

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the University Court of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

HUNTERIAN MUSEUM.

This Museum was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archaeological relics, and appropriated £8,000 for the erection of a building for their reception and preservation.

The building erected in 1804 became the property of the Union Railway Company, as explained at page 30. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists of two halls, the upper of which is galleried.

The Hunterian Museum is under the immediate superintendence of the Museums Committee, consisting of two members of the University or others, not being members of Senate, appointed by the University Court, and of four members of Senate, appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports. The Keeper of the Museum, by present custom the Professor of Natural History, is appointed by the Trustees, who, in terms of Dr. Hunter's will, are the Principal and Professors of the College. Keeper—Professor John Young, M.D.; Under-Keeper, John Young, LL.D.; Assistant-Librarian, Alexander Murdoch; Under-Keeper in Pathological Department, J. H. Teacher, M.B., C.M.

Visitors desirous of consulting in the Museum should, if possible, arrange to come between 2 and 4 p.m. Numismatists desirous of consulting the cabinet of medals should communicate with the Keeper a few days before the date of their proposed visit.

The Museum is now open to the public from 11 to 3 in winter, 11 to 4 in summer; admission sixpence. Catalogues of the Library, Medals, and Minerals are in course of preparation.

The revenue derived from the admission fee has been hitherto the only fund available for the maintenance and extension of the collection. Donors of specimens are entitled to free admission. Each matriculated student has the privilege of introducing two friends three times during the session.

Donations to Museum 1898-99.

The following donors have contributed to the Museum during the past year :—

Messrs. Annan, Photogravures of Roman Stones; Mr. Fingland, H. Spelman's Antiquities, Tertiary Fossils, and Stigmara; Mr. G. H. G. Gostwyck, Monazite from Ballachulish, and Mineral specimens; Mr. Gavin Greenlees, Cast and Transliteration of Cuneiform Inscription; R. Ker, Esq., specimens of Pearl Mussel; W. Ker, Esq., section of Kitchen Midden; Mr. Miller, medical student, Statuettes of Osiris; Miss Moorhouse, Moa Bones; Mr. W. A. Smith, Seals of Dunkeld and Columba, many Zoological specimens from South America; J. H. Teacher, M.B., Photographs of Long Calderwood; G. R. Thomson, Esq., Mineral specimens and Fossils; J. Watson, Esq., Dura Den Slab; Thomas Weir, B.D., Carnelian engraved; James Young, Esq., Lesmahagow, Silurian Fossils.

The most important addition during recent years has been the collection of the late F. A. Eck, Esq., formerly of Hollybush. During a long residence in South America, and afterwards while resident in Britain, Mr. Eck formed a splendid collection of minerals, numbering in all over 3,000 specimens. The minerals of Peru, Chili, Guatemala, New Grenada, Mexico, and California, are richly illustrated, while the European series of over 1,200 specimens is also representative. There are besides a fine series of polished precious stones, and also specimens of the old Mexican and Peruvian Pottery, and of modern carved work. This splendid gift, augmented in 1896 by a further addition of 150 precious stones from Miss Eck—along with the handsome cabinets in which the specimens are contained—the largest since the late Miss Brown of Lanfine presented, in 1875, one half of her late father's mineral collection, is due to the generosity of Mr. Eck's family, who have enjoined that the collection be kept apart and used, so far as possible, to aid the teaching of Mineralogy. Miss Brown, in 1896, presented a further series of polished amethyst, marble, jade, and enamel cups and tesserae, and in 1898 she bequeathed to the University the portrait of her father, now in the Museum, and a cabinet of minerals, along with antiquities from various localities. In February, 1888, the Council of the West of Scotland Technical College made over to the Hunterian Museum the Zoological and Ethnological collection of the Andersonian University,

later known as Anderson's College, and now merged in the Technical College, the Council requiring the space for illustrations of the lectures given under their direction. The collections, which are of very great value and extent, were largely due to the generosity of the naturalists and merchants of Glasgow, to whom the Hunterian Museum is also under great obligations.

BOTANIC GARDEN.

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-Room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of Lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the University. The removal of the University to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium-Room in the Garden, the Professor has continued to deliver his Lectures and to have his Laboratory at the University. Suitable buildings for the Botanical department are in course of erection within the University grounds.

MILLPORT MARINE BIOLOGICAL STATION.

This station, which is situated near Keppel Pier, in the island of Cumbrae, was formally opened in May, 1897. The chief object which the promoters have in view is to afford opportunities for the investigation of the Marine Fauna and Flora of the district known as the Clyde Sea Area. A practical laboratory has been provided and equipped, and one of the tables in it, for which the University Court subscribes, is called the University Table. The nomination of students to the privilege of working at this table is made by the Senate on the report of the Professors of Natural History and Botany. Applications should be addressed to the Clerk of Senate.

VIII.—GRADUATION IN THE SEVERAL FACULTIES.

EXAMINERS.

Preliminary Examinations in Arts, Science, and Medicine.

The University Court of each University annually appoints as Examiners such number of Professors or Lecturers in the Faculty of Arts in that University, and such additional Examiners as may be deemed necessary. The Preliminary Examinations in Arts, Science, and Medicine are conducted by these Examiners, under the control and supervision of a Joint-Board appointed in January of each year by the several University Courts from among the Examiners, according to a scheme of rotation prescribed in Ordinance No. 13, Section iv., as supplemented by Ordinance No. 43, Section i. The Joint-Board holds office from the first day of February to the thirty-first day of January in the succeeding year, and sits at each University in rotation in the following order:—Edinburgh (1897-8), Glasgow (1898-9), Aberdeen (1899-1900), St. Andrews (1900-1). It consists of eight Professors or Lecturers and eight additional Examiners, two Professors or Lecturers and two additional Examiners being appointed by the University Court of each University, according to the scheme printed on p. 154. In the case of a candidate at a Preliminary Examination who is permitted to offer himself for examination in any language not included in the Preliminary Examination, each University makes special arrangements for the examination of its own candidates.

UNIVERSITY.	1893, and every Fourth Year thereafter (1897).	1894, and every Fourth Year thereafter (1898).	1895, and every Fourth Year thereafter (1899).	1896, and every Fourth Year thereafter (1900).
ST. ANDREWS, . . .	English (Professor). Classics (Additional Examiner). Mathematics and Dynamics (Additional Examiner). Modern Languages (Professor or Lecturer).	English (Professor). Classics (Professor). Mathematics and Dynamics (Additional Examiner). Modern Languages (Additional Examiner).	English (Additional Examiner). Classics (Professor). Mathematics and Dynamics (Professor). Modern Languages (Additional Examiner).	English (Additional Examiner). Classics (Additional Examiner). Mathematics and Dynamics (Professor). Modern Languages (Professor or Lecturer).
GLASGOW, . . .	English (Additional Examiner). Classics (Additional Examiner). Mathematics and Dynamics (Professor). Modern Languages (Professor or Lecturer).	English (Professor). Classics (Additional Examiner). Mathematics and Dynamics (Additional Examiner). Modern Languages (Professor or Lecturer).	English (Professor). Classics (Professor). Mathematics and Dynamics (Additional Examiner). Modern Languages (Additional Examiner).	English (Additional Examiner). Classics (Professor). Mathematics and Dynamics (Professor). Modern Languages (Additional Examiner).
ABERDEEN, . . .	English (Additional Examiner). Classics (Professor). Mathematics and Dynamics (Professor). Modern Languages (Additional Examiner).	English (Additional Examiner). Classics (Additional Examiner). Mathematics and Dynamics (Professor). Modern Languages (Professor or Lecturer).	English (Professor). Classics (Additional Examiner). Mathematics and Dynamics (Additional Examiner). Modern Languages (Professor or Lecturer).	English (Professor). Classics (Professor). Mathematics and Dynamics (Additional Examiner). Modern Languages (Additional Examiner).
EDINBURGH, . . .	English (Professor). Classics (Professor). Mathematics and Dynamics (Additional Examiner). Modern Languages (Additional Examiner).	English (Additional Examiner). Classics (Professor). Mathematics and Dynamics (Professor). Modern Languages (Additional Examiner).	English (Additional Examiner). Classics (Additional Examiner). Mathematics and Dynamics (Professor). Modern Languages (Professor or Lecturer).	English (Professor). Classics (Additional Examiner). Mathematics and Dynamics (Additional Examiner). Modern Languages (Professor or Lecturer).

Degrees in Arts.

The Examiners for Degrees in Arts are the Professors whose subjects qualify for Graduation in Arts, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

Degrees in Science.

The Examiners for Degrees in Science are the Professors whose subjects qualify for Graduation in Science, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

Degrees in Medicine.

The Examiners for Graduation in Medicine are the Professors whose subjects qualify for Graduation in Medicine, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary, such provision being made as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

No person is eligible for appointment to the office of additional Examiner, whether for Preliminary Examination or for Degrees in Arts, Science, or Medicine, who is a Professor, Lecturer, or University Assistant or Demonstrator in any Scottish University, and the appointment of any additional Examiner during the currency of his term of office to a Professorship, Lectureship, or to the office of University Assistant or Demonstrator in any Scottish University is held to vacate his office of Examiner. The periods of appointment of additional Examiners are so adjusted as to secure that all the Examiners shall not vacate their office at the same time; but no Examiner can be appointed for a longer period than four years, and no person who has held the office of Examiner for a period of three or four years is eligible for reappointment to the office of Examiner in the same University until he has ceased to hold the office of Examiner in such University for not less than one year.

In the event of a vacancy in the office of a member of the Joint-Board, or of an Examiner or additional Examiner in Arts, Science, or Medicine, occurring otherwise than by expiration of his term of office, the person appointed in his room is appointed for the remainder of such term only.

Degrees in Law.

The Examiners for the Degree of Bachelor of Laws are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional Examiners appointed by the University Court.

The Examiners for the Degree of Bachelor of Law are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional Examiners appointed by the University Court.

Degrees in Divinity.

The Examiners for the Degree of Bachelor of Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

REGULATIONS FOR GRANTING DEGREES.

I. GRADUATION IN ARTS.

REGULATIONS APPLICABLE TO ALL WHO HAVE ENTERED ON THEIR ACADEMICAL COURSE SINCE 1ST OCTOBER, 1892.

The conditions on which the Degree of Master of Arts is now conferred are regulated by Ordinances No. 11,¹ No. 44, No. 148, No. 160, and No. 168 of the Universities Commission (1889), the principal provisions of which are the following :—

I. The Academical year in each University shall commence on the first day of October. The classes shall meet for the winter session (which shall include not less than twenty teaching weeks) on such day thereafter as the Senatus of each University shall determine; and shall close not later than the tenth day of the following April.

The University Court of each University shall institute a summer session in such of the subjects or branches of subjects qualifying for graduation in Arts as may be determined by the said Court after consultation with the Senatus. Such session shall commence on such day as the Senatus of each University shall determine, and shall include ten teaching weeks at least. The classes shall be conducted by the Professors, or by Lecturers appointed under Ordinance No. 17 (Regulations as to Assistants and Lecturers).

II. The Curriculum for the Degree of Master of Arts (M.A.) shall extend over not less than three winter sessions, or two winter sessions and three summer sessions.

PRELIMINARY EXAMINATION.²

III. (1) Before entering on the Curriculum (subject to the proviso contained in Section IV., Sub-section 1) each student shall pass a Preliminary Examination in the following subjects :—

¹ This ordinance was printed in full in the *University Calendar* for 1892-93, pp. 477-485, and the modifications made by Ordinance No. 44 were inserted in italics in the *University Calendar* for 1894-95.

² Supplementary Regulations issued by the Joint Board on 23rd January, 1899, have been inserted in smaller type at the points in the ordinances to which they refer.

1. English.
2. Latin or Greek.
3. Mathematics.
4. One of the following :—Latin or Greek (if not already taken), French, German, Italian (or such other language as the Senatus Academicus may approve), Dynamics.

(2) The examination must be passed in the matters and on the standards hereinafter defined; but there shall be a higher and a lower standard in Latin and in Greek, and a higher, an intermediate, and a lower standard in Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two; subject always to the conditions relative to attendance contained in Section IV. hereof.

(3) English shall include Grammar and Composition, and the outlines of Geography and British History, and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

In the case of a foreign student, whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint-Board of Examiners may deem sufficient.

The Joint-Board has issued the following directions showing the character of the papers to be set in English :—

English will include (a) Grammar, (b) Composition, (c) Literature, (d) History, and (e) Geography.

(a) Grammar will include Analysis, Parsing, Derivation, and Correction of Sentences.

(b) Composition will include an Essay and Paraphrasing.

(c) Literature will comprise a knowledge of certain prescribed books of two or three writers. Questions requiring a general knowledge of the life and works of the greater writers will not be set; but one or two questions may be set, giving an opportunity to candidates who have read widely in English Literature to show their knowledge. The prescribed books will be :—For 1899, Shakespeare, *Julius Caesar*; Scott, *Kenilworth*; Matthew Arnold, *Selections* (Macmillan); Johnson, *Life of Pope*. For 1900, Shakespeare, *Richard III.*; Thackeray, *Esmond*; Scott, *Marmion*.

(d) History will include a knowledge of one of the following periods to be taken in successive years in the order herein mentioned, namely :—The outlines of the History of both England and Scotland from the Roman Occupation to 1603 (for April and October, 1899); from 1603 to the Union of the Parliaments in 1707 (for April and October, 1900).

(e) Geography will include a general knowledge of the Geography of the World, and a special knowledge of the Geography of the British Empire.

(4) Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin or Greek. The higher standard shall not be lower than that presently [before October, 1892] adopted in the examination for a Curriculum of three sessions, or for the Higher Grade Leaving Certificate of the Scotch

Education Department, and the lower standard shall not be lower than that presently adopted for the Lower Grade Leaving Certificate of the said Department.

The Latin examination on the higher standard will be—Translation, Prose Composition, Grammar, and Sentences.

The Greek examination on the higher standard will be—Translation, Sentences, and Grammar.

The passages for translation both from Greek and Latin will include Prose and Verse.

The Latin examination on the lower standard will be—Translation and Parsing, Prose Composition, Grammar, and Sentences.

The Greek examination on the lower standard will be—Translation, Sentences, and Grammar.

In the Latin and the Greek papers both on the higher and lower standards, candidates are required to satisfy the Examiners both in Composition and in Translation.

Candidates who, having taken in Latin or Greek the examination on the higher standard, have failed to pass on that standard, but have obtained a percentage of marks equivalent to a pass on the lower standard, may be held by the Board to have passed the examination on the lower standard.

(5) French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian; and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

For the examination in French and German—

Two papers shall be set, both in French and German—an hour and a half being allowed for the first paper, and two hours for the second; the first paper will contain a passage for translation from English into French or German, with some short sentences of an idiomatic character; the second paper will contain a set of grammatical questions, two passages for translation into English (one in verse, one in prose), and a selection of literary or philological questions, from which the candidate will be allowed to choose *one only*.

The questions on Literature will be confined, year by year, to certain groups of authors, as in the following scheme, viz.:

FRENCH.—(i.) In October, 1899 (17th century)—Pascal, Descartes, Corneille, Racine, Molière, Boileau, La Fontaine, Madame de Sévigné, Bossuet, Fenelon, La Rochefoucauld, La Bruyère. (ii.) In April and October, 1900 (18th century)—Regnard, Lesage, Massillon, Saint Simon, Voltaire, Montesquieu, Vauban, Marivaux, Jean Jacques Rousseau, Diderot, Buffon, Beaumarchais, Bernardin St. Pierre, Mirabeau.

GERMAN.—(i.) In October, 1899—Klopstock, Wieland, Lessing, Herder, Bürger, Voss, Friedrich Leopold Stolberg, Höpfl, Leisewitz. (ii.) In April and October, 1900—Goethe, Schiller, Klingler, Lenz, Schubert, Arndt, Körner, Rückert.

(6) Mathematics on the lower standard shall comprise—(a) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (b) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (c) Geometry: Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

(7) Mathematics on the intermediate standard shall include the following, in addition to the subjects included in the lower standard, viz.:—(a) Euclid: Book VI., Propositions 1-19, or Geometry equivalent thereto. (b) Algebra: Quadratic Equations, Ratio and Proportion. (c) The Trigonometry of Right-angled Triangles.

(8) Mathematics on the higher standard shall, in addition to what is included on the lower standard, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with Deductions, Quadratic Equations, Trigonometry to the Solution of Triangles inclusive, and the use of Logarithmic Tables.

In the examination in Mathematics on the higher and intermediate, and on the lower standards each question in Geometry will consist of two parts, of which one will be an easy deduction or illustrative exercise on the proposition set as bookwork.

The papers in Mathematics on the higher standard and on the intermediate standard will be devoted to the various subjects comprised in them as nearly as possible in the following proportions: two-fifths to Geometry, two-fifths to Algebra (including Arithmetic, if thought desirable), and one-fifth to Trigonometry.

Candidates for the higher standard may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

The pass-mark for candidates on the intermediate standard is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the intermediate standard; but such candidates will receive credit for any question they may answer.

The paper in Mathematics on the lower standard will be devoted to the various subjects comprised in as nearly as possible the following proportions: four-ninths to Geometry, three-ninths to Algebra, and two-ninths to Arithmetic.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

(9) Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

The paper on Dynamics will be directed to test the candidate's knowledge of the fundamental principles of the subjects included in it. As far as possible each question will consist of two parts, one of which will be a numerical or other simple illustrative example of the principle with which the other part of the question deals. About one-seventh of the paper will be devoted to Kinematics, and the remainder of the paper will be assigned to Kinetics, Statics, and Hydrostatics in as nearly as possible equal proportions.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each section of the paper.

Dynamics shall include the following:—(a) *Kinematics*. Displacements, velocities, and accelerations of a moving point, with their compositions and resolutions. Translation of a rigid body. Relative velocity of two moving points. (b) *Kinetics*. The laws of motion. Momentum, force, energy, work—their measures in the British and C.G.S. systems of units. Change of units. Rectilinear motion of a particle under the action of constant forces. Free motion of a body under gravity, including projectiles. Atwood's machine. Impulsive forces. Direct impact of smooth spheres. (c) *Statics*. Composition and resolution of co-planar forces. Theory of co-planar couples. Conditions of equilibrium of forces in one plane. Centre of mass. Friction. Machines. Application of the principle of work to machines. (d) *Hydrostatics*. Definitions of *solid, fluid, liquid, gas*. Viscosity. Measure of the pressure at a point of fluid. Law of equable transmission of pressure. Laws of variation of pressure in heavy liquids. Resultant pressure of a heavy liquid on a plane surface, including the centre of pressure of a plane surface. Principle of Archimedes. Experimental

determination of the densities of solids, liquids, and gases. Atmospheric pressure. The barometer. Boyle's Law. The siphon, pumps for liquids, air pumps, and the diving-bell.

Questions may be set which involve the Trigonometry of Right-angled Triangles.

(10) A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may *offer himself for re-examination* as often as may be necessary *to satisfy this condition*.¹

IV. (1) Attendance on any class shall not qualify for graduation, unless the whole Preliminary Examination has been previously passed. *Any student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying class in such subject or subjects without having passed in the other subjects of the examination, provided always that (a) no candidate shall be allowed to present himself for examination in any subject qualifying for graduation until he has passed the whole Preliminary Examination; and (b) no student shall be admitted to a degree in Arts unless he has attended qualifying classes in the University granting the degree, or in another Scottish University, as provided by Section xxv. hereof, for three academic years after he has completed his Preliminary Examination.*¹

(2) Attendance on a class in any language included in the Preliminary Examination shall not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where a double standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of the sub-section immediately preceding shall have been satisfied.

(3) Attendance on a class in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.

(4) Attendance on a class of Mathematics or Natural Philosophy shall not qualify for graduation unless the candidate, before entering the class, has passed in Mathematics on the higher standard or on the intermediate standard.

V. (1) The Preliminary Examination shall be held at each University twice in each year, under such regulations as the Senatus, with the approval of the University Court, shall from time to time determine, and shall be conducted in writing.²

¹ The words in italics are taken from a supplementary Ordinance No. 44, which was approved by Her Majesty in Council on 28th May, 1894, and came into force on 1st October, 1894. The ordinance provides that the alterations on Sections III (10) and IV. (1) shall be held to have come into force on 1st October, 1892.

² For dates of Preliminary Examinations see Table on page 161.

TABLE OF PRELIMINARY EXAMINATIONS FOR DEGREES IN ARTS, SCIENCE, AND MEDICINE, TO BE HELD DURING SESSION 1899-1900.

I. ARTS AND SCIENCE.

Fee.	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.	Subject.	Dates of Examinations and Hours at which the various Papers will be set.
0s. 6d.	11th September or 2nd March.	Italian, - English, -	Friday, 23rd March, 2 to 5 p.m. Saturday, 24th March, 9 to 11 a.m., and 12 noon to 2 p.m.
10s. 6d.		Lower Greek, - Lower Latin, - Lower Mathematics Higher Latin, -	Saturday, 24th March, 3 to 6 p.m. Monday, 26th March, 9 a.m. to 12 noon. Monday, 26th March, 2 to 5 p.m. Tuesday, 27th March, 9 to 11 a.m., and 12 noon to 2 p.m.
		French (1st Paper), - Higher Greek, -	Tuesday, 27th March, 3 to 4.30 p.m. Wednesday, 28th March, 9 to 11 a.m., and 12 noon to 2 p.m.
		German (1st Paper), - Intermediate and Higher Math., - French (2nd Paper), - German (2nd Paper), - Dynamics, -	Wednesday, 28th March, 3 to 4.30 p.m. Thursday, 29th March, 9 to 11 a.m., and 12 noon to 2 p.m. Thursday, 29th March, 3 to 5 p.m. Friday, 30th March, 9 to 11 a.m. Friday, 30th March, 1 to 4 p.m.

II. MEDICINE.

10s. 6d.	11th September or 2nd March.	English, - Greek, - Latin, -	Saturday, 24th March, 9 a.m. to 12 noon. Saturday, 24th March, 3 to 6 p.m. Monday, 26th March, 9 a.m. to 12 noon.
10s. 6d.		Mathematics, - French, - German, -	Monday, 26th March, 2 to 5 p.m. Tuesday, 27th March, 3 to 6 p.m. Wednesday, 28th March, 3 to 6 p.m.

(2) The Joint-Board of Examiners to be appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to accept the Higher Grade Leaving Certificate of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject; and to accept the Lower Grade Leaving Certificate of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics; provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by this ordinance.

Under this sub-section the Joint-Board of Examiners has resolved as follows:—For the Preliminary Examination in Arts and Science the Higher and Honours Grade Leaving Certificates of the Scotch Education Department in Latin, Greek, and Mathematics will be accepted as equivalent to the higher standard in each of these subjects, as prescribed by the Arts Ordinance, and the Lower Grade Certificate to the lower standard; the Higher and Honours Grade Leaving Certificate in English, in Modern Languages, and in Dynamics will be accepted as equivalent to the standard prescribed for each of these subjects by the Arts Ordinance.

(3) The Joint-Board of Examiners shall have power to determine what examinations, if any, other than those for the Leaving Certificates of the Scotch Education Department, may be accepted as equivalent to the Preliminary Examination in whole or in part, provided they are satisfied that such other examinations are in fact equivalent thereto.

Under this sub-section the Joint-Board has resolved as follows:—

(a) A Degree in Arts or in Science, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Arts or in Science, as the case may be.

(b) A Certificate of having passed in the Honours or First Division in English in the London University Matriculation Examination will be accepted as equivalent to English in the Arts and Science Preliminary Examination; and the Joint-Board also accepts, for the Preliminary Arts and Science Examination (1) London University Matriculation Mathematics as equivalent to Lower Mathematics; (2) London University Matriculation Mechanics as equivalent to Dynamics; and (3) London University Intermediate Mathematics as equivalent to Intermediate and Higher Mathematics.

(c) Oxford University Senior Local Examinations, if passed with distinction, will be accepted as exempting *pro tanto* in Higher Latin, Higher Greek, French, German, and Intermediate Mathematics; also in English, provided that in English the candidate has passed with distinction in division 1, and in division 3, or 4, or 5; a pass without distinction, will be accepted *pro tanto* for Lower Latin, Lower Greek, and Lower Mathematics.

(d) Oxford University Higher Examination for Women will be accepted as exempting *pro tanto* for the Arts and Science in the case of Higher Latin, Higher Greek, English, and Lower Mathematics; and, if with distinction, for French and German, and Higher Mathematics.

(e) Cambridge University Local Examinations:—

1. Junior Locals. The pass with distinction will be accepted for Lower

Mathematics, provided the candidate has passed in Books I., II., and III. of Euclid, and in Quadratic Equations.

2. Senior Locals. The pass will be accepted as exempting *pro tanto* for Lower Latin, and Lower Greek, and for Higher Mathematics; and, if with distinction, for English, Higher Latin, Higher Greek, and Modern Languages.

(f) Cambridge University Higher Local Examinations will be accepted *pro tanto*.

(g) Oxford and Cambridge Schools Examination Board. Lower Certificate will be accepted for Lower Mathematics, provided the candidate has passed in three books of Euclid, and as far as Quadratic Equations in Algebra.

Higher Certificate. The pass will be accepted for Lower Latin, Lower Greek, and Lower Mathematics, provided the latter includes Elementary and Additional Mathematics; if with distinction, will be accepted for Higher Latin, Higher Greek, French, German, and Higher Mathematics.

(h) Victoria University. The Preliminary Examination will be held as exempting from the Preliminary proper, but not from the examination required for admission to a graduating class in any language.

(i) For the Preliminary Examination in Arts and Science, the Deans of the Faculties concerned are empowered to accept, *pro tanto*, such examinations qualifying for entrance to recognised Colonial and Foreign Universities (although not included in the list of Equivalent Examinations issued by the Joint-Board) as they consider to be sufficient, but on condition that they afterwards report each case to their respective Senates, and to the Joint-Board as soon as possible.

ORDINARY DEGREE.

VI. Candidates for the ordinary degree of Master of Arts may follow the Curriculum and take their degree in the subjects hitherto recognized for graduation, as provided by the regulations¹ contained in Ordinances Nos. 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, subject always to the preceding provisions of this ordinance; or they may vary the Curriculum for graduation under the regulations contained in the immediately succeeding sections.

VII. (1) Candidates shall attend full courses in at least seven subjects, and shall be examined on these subjects.

(2) Of these subjects four must be (a) Latin or Greek (not Modern Greek); (b) English or a Modern Language (*i.e.* French, German, Italian, or Spanish) or History; (c) Logic and Metaphysics, or Moral Philosophy; (d) Mathematics or Natural Philosophy.

(3) The remaining subjects may be selected by the candidate from the departments specified in Section IX. of this ordinance, under the following condition:—That the whole subjects taken shall include either (a) both Latin and Greek (not Modern Greek), or (b) both Logic and Moral Philosophy, or (c) any two of the following three subjects:—Mathematics, Natural Philosophy, and Chemistry.

VIII. (1) Each of the subjects must be studied in a full course of not less than one hundred meetings of the class on separate days, except in cases where the Senatus, with the approval of the University Court, shall

¹ See pp. 170, 171.

have sanctioned, as qualifying for graduation, half courses of not less than fifty meetings on separate days; or where the Senatus, with the approval of the said Court, shall, having regard to the nature of the subject, sanction full courses of less than one hundred or of less than fifty meetings respectively.

Under this sub-section the Senate, with the approval of the University Court, has sanctioned, as qualifying for graduation, half courses in the following subjects, viz.:—Latin, Greek, Philosophy of Law, Mathematics, Astronomy, Geology, Constitutional Law and History,¹ and Public Law.

(2) Two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

Under this sub-section the Senate, with the approval of the University Court, has determined that any two half courses in subjects which are taught only in half courses and not in full courses in Arts, shall be held to be equivalent to a full course, and that where in Arts a full course is given in any subject, a half course in such subject shall not be combined with a half course in any other subject, but only with a second half course in the same subject, both the systematic and practical portions of the courses being taken in cases where both are prescribed.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

Under this sub-section the Senate, with the approval of the University Court, has resolved that in Chemistry, Botany, and Zoology the course of study for a Degree in Arts, and the relative proportion of lectures and laboratory or practical work, shall be as follows:—

1. Chemistry.—A systematic course of one hundred meetings of the class and a practical course of two and a half months.

2. Botany.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

3. Zoology.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

IX. The departments of study for graduation in Arts in each University shall, if adequate instruction is provided, include the following subjects, with such additions or modifications in any University as may hereafter be made by ordinance of the University Court:—

1. *Language and Literature.*

Latin.	French.	Sanskrit.	Celtic.
Greek.	German.	Hebrew.	Modern Greek.
English.	Italian.	Arabic or Syriac.	

2. *Mental Philosophy.*

Logic and Metaphysics.	Education (Theory, History, and Art of).
Moral Philosophy.	Philosophy of Law.
Political Economy.	

3. *Science.*

Mathematics.	Astronomy.	Zoology.	Geology.
Natural Philosophy.	Chemistry.	Botany.	

¹ Candidates for the Degree of Master of Arts with Honours in the Group of History may attend the course of eighty Lectures in Constitutional Law and History, and may reckon such attendance as attendance on a full course.

4. *History and Law.*

History.
Archæology and Art (History of).
Constitutional Law and History.

Roman Law.
Public Law.

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the ordinary degree of Master of Arts on payment of the fees required.

DEGREE WITH HONOURS.

XI. (1) The degree of Master of Arts may be taken with Honours in any of the following Groups, in which Honours Classes shall have been established in at least two subjects:—

(a) Classics (*i.e.*, Latin and Greek, with optional subjects such as Comparative Philology, Ancient Philosophy, and Classical Archæology).

(b) Mental Philosophy.

(c) Mathematics and Natural Philosophy.

(d) Semitic Languages.

(e) Indian Languages.

(f) English (Language, Literature, and British History).¹

(g) Modern Languages and Literature (*i.e.*, French, German, Italian, or Spanish).

(h) History.

(i) Economic Science [*i.e.*, Political Economy with either (a) Moral Philosophy or (b) History as supplementary Honours Subjects].²

(2) Every Candidate shall take up at least five subjects. Two of these subjects, under separate Professors or Lecturers, must be selected from the Candidate's Honours Group; and the five subjects shall include one from each of the Departments of Language and Literature, Mental Philosophy, and Science, set forth in Section IX. of this Ordinance.

(3) Every Candidate shall attend seven Classes, taking two Classes (one of which shall be an Honours Class) in each of his Honours subjects.³

(4) A Candidate who has obtained Honours in any one Group, may, before graduating,⁴ present himself again for examination in a second

¹The Senatus Academicus, in determining the courses to be attended within the Honours Group entitled "English (Language, Literature, and British History)," and the character of the examination specified in Section XI., sub-section 1 (f), shall regard English Literature as constituting the chief subject of the Group, the linguistic and historical subjects being regarded as subsidiary thereto.

²This Group of Honours was instituted by Ordinance No. 160, issued by the Universities Commission on 10th May, 1897, and approved by Her Majesty in Council on 19th May, 1898.

³The Senate, on 6th April, 1899, made the following regulation:—No Honours Class can be taken for graduation purposes either before or in the same session as an Ordinary Class in the same subject.

⁴Ordinance No. 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this sub-section, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

Honours Group. In such a case, he shall not be required to attend more than two additional Classes, which shall be Honours Classes, in the second Group.

(5) The examination in the subjects comprised in the Candidate's Honours Group shall be of a higher standard than that required for the ordinary degree of Master of Arts. In his other subjects the standard shall be that required for the ordinary degree.

(6) The Senatus shall, subject to the provisions of Sections XVI. to XX. of this Ordinance, from time to time determine what subjects shall be comprised in each Group, what subjects may be taken in half courses, and in which Group they may be taken: Provided that no new Group shall be instituted except by Ordinance of the University Court.

(7) The provisions of Section VIII. of this Ordinance shall apply to Candidates for Honours; but, in their case, not fewer than fifty meetings, on separate days, extending over an entire winter session, shall constitute a full course for an Honours Class; and not fewer than twenty-five meetings on separate days, extending over half a winter session, or an entire summer session, shall constitute a half course.

XII. (1) Every Candidate shall include Latin, or Greek, either in his Honours Group or as one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

(2) Greek shall be compulsory for candidates for Honours in Mental Philosophy. *Candidates for Honours in Mental Philosophy who have included Latin, but not Greek, as one of the subjects in which the standard of examination is the same as that required for the ordinary degree of Master of Arts, shall be deemed to have satisfied the provisions of this sub-section, if, before they offer themselves for the Honours examination in Mental Philosophy, they shall have passed a special examination in translating into English, passages from the works of Greek philosophical authors,¹ including passages from the works of such authors not previously prescribed.²*

(3) Candidates for Honours in English, or Modern Languages and Literature, or History, or *Economic Science*³ (Groups *f, g, h, i*, of Section XI. hereof), shall include within the whole subjects taken for their degree (*a*) Logic and Metaphysics or Moral Philosophy and (*b*) Mathematics or Natural Philosophy.

(4) Every candidate shall have obtained a certificate for his attendance on the class of Latin or Greek, under sub-section (1) or (2) of this section before he offers himself for examination in his Honours group of subjects.⁴

(5) Candidates for Honours in Economic Science (Group *i*) of Section XI. hereof), who take Moral Philosophy as their supplementary Honours subject, may take a half course in Civil Law and a half course in the Philosophy of Law, which, together, shall be deemed to constitute one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.⁵

¹ The following works have been prescribed, viz. (*a*), Plato's *Phaedo* or any book of the *Republic*; (*b*) Aristotle's *Ethics*, Book I.

² The words in *italics* in this sub-section are taken from Ordinance No. 148.

³ The words in *italics* are taken from Ordinance No. 160.

⁴ This sub-section is taken from Ordinance No. 148.

⁵ This sub-section is taken from Ordinance No. 160. See second note on preceding page.

XIII. (1) The whole examination in the candidate's Honours Group must be taken at one time, and the whole examination necessary for graduation with Honours must be taken within five years from the date of the candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the extension.

(2) Candidates for Honours may be examined, at any time during their Curriculum, in the three subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

XIV. (1) A candidate who has passed the examinations necessary for the ordinary degree of Master of Arts, but who has not yet graduated,¹ may present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination, and shall not be required to attend further classes:—subject always to the provisions of Section XII. hereof.

(2) No one shall be allowed to present himself a second time as a candidate for the degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

(3) A candidate shall be held to have presented himself who has notified his name for Examination in accordance with the University regulations. But it shall be in the power of the Senatus to relax this rule on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XV. (1) In each Group there shall be three Grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the degree of Master of Arts with Honours a Diploma shall be given setting forth the subjects in which he has taken Honours.

BOARDS OF STUDIES.

XVI. The Senatus of each University shall from time to time institute Boards of Studies corresponding as nearly as may be to the Departments of Study enumerated in Section IX. of this Ordinance.

XVII. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus shall appoint one of the Members of the Board to be Convener thereof.

XVIII. Before the end of each winter session each Professor and Lecturer in the said Departments of Study shall submit to the proper

¹ Ordinance No. 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this sub-section, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his class for the next academical year. As soon as such approval has been given, the syllabus shall be transmitted to the Faculty of Arts for its consideration. The syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

In addition to the syllabus of subjects specified in Section XVIII., the Professors, and in the case where a subject is taught by a Lecturer only, the Lecturer or Lecturers, shall submit to the proper Board of Studies a syllabus of the subjects and books to be prescribed for the examinations for the Ordinary Degree of Master of Arts in the next academical year, and for the Honours examinations in the academical year next but one.

XIX. (1) Before the end of each winter session each Board of Studies shall prepare a scheme defining for the academical year next but one following, the classes which shall be deemed to be Honours Classes, and the subjects and courses of reading for Honours in its department, and shall report the same to the Faculty of Arts for its consideration. The scheme, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

(2) Each Board shall in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the half courses which may be sanctioned under the provisions of this ordinance, and the Lectures which may be given on special subjects.

XX. The Principal and the Dean of the Faculty of Arts shall be *ex-officio* Members of each Board of Studies. The Convener shall preside, and, in his absence, each meeting shall appoint its own Chairman, and every Chairman shall have a deliberative, and, in cases of equality, a casting vote.

GENERAL.

XXI. In the case of a foreign student whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint Board of Examiners may deem sufficient. In the case of a student whose native language is other than European, the Senatus may accept as an alternative to Latin or Greek any other classical language, such as Sanskrit or Arabic, subject always to the provisions of Section IV., Sub-section 3 hereof.

XXII. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XXIII. The examination in all the languages in the Curriculum shall, as far as possible, be on the same standard in examinations for the same degree, and shall in all cases test the candidate's knowledge of the history and literature of the several countries.

XXIV. A candidate for the degree of Master of Arts shall not be deemed to have attended a class as part of the Curriculum for that

degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XXV. A student, who has given attendance at classes recognized as qualifying for graduation during one or more sessions in any one or more of the Scottish Universities, may complete his Curriculum by giving attendance during the remainder of his course in another Scottish University, and may proceed to a degree in the latter University in the same way, in all respects, as if the previous part of his Curriculum had been taken therein: Provided always that every such student shall be bound to produce, to the satisfaction of the Senatus of the latter University, certificates of his having passed the Preliminary Examination, and of his attendance at the former University or Universities, and shall be examined in all the subjects necessary for a degree of Master of Arts by the Examiners of the University in which he completes his Curriculum, and in which alone he shall be allowed to graduate; and that no such student shall be admitted to a degree in any University unless he has given attendance in such University during the last winter session of his Curriculum, and one other winter session or two summer sessions.

XXVI. A candidate for the degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the ordinary degree of Master of Arts.

XXVII. The degree of Master of Arts shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XXVIII. A student who, previous to 1st October, 1892, commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations¹ in force at the time in such University, may complete his course and become a candidate for the degree of Master of Arts, with or without Honours, in conformity with such regulations. And any such student who has passed the examination hitherto required for admission to a Curriculum of three sessions shall, if he desire to come under the regulations of this Ordinance, be exempted from the Preliminary Examination herein required.

XXIX. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

Attendance on classes in the Faculty of Arts in which the teaching is on the standard at present recognised for the classes hitherto known as Junior or Middle Classes, shall in no case qualify for graduation.

XXX. It shall be competent for the University Court in each University to discontinue the Junior Classes, or Middle Classes, where such exist, in Latin, Greek, and Mathematics, when, in the opinion of the Court, the provision for Secondary Education in schools throughout the country is sufficient to render such classes no longer necessary.

¹ See pp. 170, 171.

REGULATIONS APPLICABLE TO ALL WHO BEGAN THEIR ACADEMICAL COURSE
BEFORE 1ST OCTOBER, 1892.

I. The ordinary course of study necessary for the Degree of Master of Arts (except in the circumstances mentioned in the following paragraph) extends over four winter sessions, and includes attendance for not less than two sessions on the classes of Humanity, Greek, and Mathematics respectively, and attendance for not less than one session on the classes of Logic, Moral Philosophy, English Literature, and Natural Philosophy respectively.

II. Any student who, at the time of his entrance to the University, shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the higher classes of Latin, Greek, and Mathematics, or any of them, may be admitted to such higher class or classes without having attended the Junior class or classes, in the same department or departments; and in the case of students who are, after such examination, admitted to the higher Greek and Latin classes, the course of study for the Degree of Master of Arts may be completed within three winter sessions instead of four.

III. In pursuing the course of study for the Degree of Master of Arts, no student is permitted to pass from the Junior to a higher class in any department, unless the Professor is satisfied of his fitness to enter the higher class.

IV. It is in the power of any student, who has given attendance during one or more sessions on the course of study in any other Scottish University, to complete his course of study and proceed to the Degree of M.A. in this University: Provided always, that every such student shall produce, to the satisfaction of the Senatus Academicus of this University, testimonials of his attendance at the former University, and shall be examined in all the departments necessary for the Degree of Master of Arts by the Examiners of this University: Provided also, that no student shall be admitted to a degree in this University unless he has given attendance in this University during the last two sessions of his course.

V. Any student who has completed the required attendance on the Latin and Greek classes, may be examined on those subjects at any examination for degrees, although he has not completed his attendance on the other classes of the prescribed course; and, in like manner, any student who has completed the required attendance on the classes of Logic, Moral Philosophy, and English Literature, may be examined on these subjects at any examination for degrees, although he has not completed his attendance on the other classes of the prescribed course; and, if such student shall satisfy the Examiners, when so examined in Latin and Greek, or in Logic, Moral Philosophy, and English Literature, or in Mathematics and Natural Philosophy, he is entitled to receive from them a certificate to that effect, and he is not again examined on the same subjects, as a condition of his taking the Degree of Master of Arts.

VI. Students who have passed satisfactorily an examination or examinations on the several subjects embraced in the prescribed course of study, are entitled forthwith to receive the Degree of Master of Arts without Honours; but they may, before taking a degree, offer themselves for a farther examination, with a view to Graduation with Honours:¹ Provided always, that any student who desires to offer himself for examination, with a view to Graduation with Honours, in any one or more departments, may proceed to such examination without having previously passed the examination in such department or departments for the Degree of Master of Arts without Honours; and if such student, in the opinion of the Examiners, fails to attain the standard for Honours in any department, but attains to the standard of the examination for Graduation without Honours, he shall be held to have passed in that department for the Degree of Master of Arts without Honours, but if in any such department he fails to attain to the standard of the examination for Graduation without Honours, he shall not be entitled, until he shall have passed in that department, to the Degree of Master of Arts: Provided also, that no person shall be admitted to examination for Honours after he has ceased to be a matriculated student in attendance on a class or classes in the University for more than one winter session, unless he has been prevented from offering himself by ill-health or other sufficient cause.²

There are four departments, in any one or more of which candidates for Graduation with Honours may offer themselves for examination, viz.:—

- A. Classical Literature;
- B. Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy;
- C. Mathematics, including Pure Mathematics and Natural Philosophy; and
- D. Natural Science, including Botany, Geology, Zoology, and Chemistry.

In each of the first three of the above-mentioned departments—viz., in Classical Literature, in Mental Philosophy, and in Mathematics—there are two grades of honour, denominated respectively the First Class and the Second Class; but in the department of Natural Science there is one class of Honours only; and the names of the candidates entitled to Honours in each class, in the several departments, are arranged, when publicly announced, in alphabetical order.

The papers for the examinations under the old regulations are the same as those in the corresponding subjects for the Degree of M.A. under the new regulations, and the examinations take place at the same time.

For Dates of Examination, see Table on p. 181.

¹ The provisions with regard to Honours contained in this and the following paragraphs are applicable only to those who began their curriculum before session 1892-93.

² By minute of date 28th November, 1872, the Senate resolved that the power conferred on them of dispensing with the above regulation "will not be exercised except in the case of the applicant having been precluded from attendance by ill-health, or very peculiar circumstances, quite beyond the applicant's control; attendance at another University not to be considered such."

TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING TO THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.

The Examination Questions set in April, 1899, in the several Departments and Subjects will be found towards the end of the *Calendar*.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
LATIN	<p>October, 1899.</p> <p>VIRGIL, <i>Æneid</i>, Book VIII.</p> <p>HORACE, <i>Odes</i>, Books I, II, III, IV.</p> <p>HORACE, <i>Satires</i>, Book I, or <i>Epistles</i>, II, with <i>Art Poetica</i>.</p> <p>TACITUS, <i>Annals</i>, II.</p> <p>Either (a) CICERO, <i>De Officiis</i>, II, III, or (b) CICERO, <i>In Verrem</i>, II, IV (<i>De Signis</i>).</p> <p>ROMAN ANTIQUITIES (Ramsay, Caps. II to VIII inclusive, and Cap. XI). ROMAN HISTORY, from B.C. 133 to B.C. 31 (<i>Students' History of Rome</i>, Books VI, VII).</p> <p>Unseen translation.</p> <p><i>Note.</i>—Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions.</p> <p>April and October, 1900.</p> <p>VIRGIL, <i>Æneid</i>, Book IX.</p> <p>HORACE, <i>Odes</i>, Books I, II, III, IV.</p> <p>HORACE, <i>Satires</i>, Book I, or <i>Epistles</i>, II, with <i>Art Poetica</i>.</p> <p>TACITUS, <i>Annals</i>, III.</p> <p>CICERO, either (a) <i>Phil.</i> I, II, or (b) <i>Letters</i>, not less than fifty consecutive pages of text.</p> <p>ROMAN ANTIQUITIES (Ramsay, Caps. II to VIII inclusive, and Cap. XI). ROMAN HISTORY from B.C. 133 to B.C. 31 (<i>Students' History of Rome</i>, Books VI, VII).</p> <p>Unseen translation.</p> <p><i>Note.</i>—Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the Books read is required, so as to enable a student to explain and comment on the text, and explain allusions.</p>	<p>October, 1899, and afterwards till further notice.</p> <p>VIRGIL, <i>Æneid</i>, VII—XII.</p> <p>HORACE, the <i>Satires</i> and <i>Epistles</i>.</p> <p>And any two (or more) of the following combinations : (a) LUCRETIVS, Books I, II (or III and IV to line 1019), with a play of PLAUTUS. (b) JUVENAL (the whole excepting <i>Sat.</i> II, VI, and IX). (c) PERSIUS, with Sellar's Selections from Martial, Books I-IV, or Books V-VIII. (d) CATULLUS (Clarendon Press Selection) and PROPERTIUS (Ramsay's Selection).</p> <p>VERSE.</p> <p>CICERO, the <i>Philippic Orations</i>, I-VI, or any oration of Cicero, or any consecutive portion of Cicero's <i>Epistles</i> (Muirhead's or Pritchard and Bernard's Selections) of at least equal length.</p> <p>PROSE.</p> <p>Livy, I-III, or XXI-XXIII. TACITUS, <i>Annals</i>, Books I-IV.</p> <p>With Latin Composition, History, and Antiquities, etc. Passages also from Books not prescribed will be set.</p> <p>Candidates may profess any extra books they please.</p>

FOR ORDINARY DEGREE.

October, 1899.

HOMER, *Iliad*, IX, or *Odyssey*, XI.
 ARISTOPHANES, *Equites*.
 HERODOTUS, VI, 1—93, or DEMOSTHENES, *Philippics*, I—IV.
 ISOCRATES, *Panegyricus*, 1—132.
 Unseen translation and composition.

Holm's *History of Greece*, Vol. II.
 Questions on Greek Grammar and Literature.

April and October, 1900.

HOMER, *Odyssey*, XI, or *Iliad*, XXII.

ÆSCHYLUS, *Prometheus*.

THUCYDIDES, V, 1—61.

PLATO, either *Republic*, VIII and IX, omitting p. 546 and pp. 583—586 inclusive, or *Apology and Crito*.

Unseen translation and composition.

Holm's *History of Greece*, Vol. II.
 Questions on Greek Grammar and Literature.

IN

GREEK

April, 1899,¹ and afterwards till further notice.

HOMER, *Iliad*, I, VI, IX, XVI, XXII; and *Odyssey*, VI, X, XI, XIV, XXIII.
 DRAMA. ÆSCHYLUS, *Agamemnon*, and SOPHOCLES, *Antigone*.

HISTORY. Either THUCYDIDES, I, or HERODOTUS, VII.

PHILOSOPHY. PLATO, either *Phædo* or *Republic*, II, IV, and V, to page 406, omitting pages 458—461 (=Chap. I—XIII, omitting VIII and IX). ARISTOTLE, either *Poetics*, omitting Chap. XX and XXI, or *Politics*, I—II, 6 inclusive.

TWO ADDITIONAL BOOKS to be chosen by the Candidate subject to the special approval of the Professor, which must be applied for at least Three Months before the Examination. By a Book is meant an amount of continuous Prose equal to a Book of Herodotus or Thucydides, or an amount of continuous Poetry equal to two plays.

Besides passages for translation from the above book*, Questions will be set upon the Text, Interpretation, and Subject Matter. A pure and accurate English style in translation is considered of the highest importance.

¹ In October, 1899, candidates may, on obtaining special permission, follow the rules published in the *University Calendar* for 1897-8. For the regulations applicable to October, 1898, see *University Calendar* for 1897-8, page 167.

FOR ORDINARY DEGREE.

October, 1899.

A. For students of session 1897-98:—(1) English Composition; (2) English Philology; (3) Elizabethan Drama, especially Marlowe's *Dr. Faustus* and *Edward II.*; Shakespeare's *Two Gentlemen of Verona*, *Richard II.*, *Much Ado about Nothing*, *As You Like It*, *Hamlet*, *Othello*, *King Lear*, *Macbeth*, *Coriolanus*, *The Tempest*; Jonson's *Alchemist*; Webster's *Duchess of Malfi*; Milton's *Samson Agonistes*; (4) (a) *Selections from the Spectator*, ed. Deighton, with compulsory question on the text; (b) Palgrave's *Golden Treasury of Songs and Lyrics* (First Series), Book IV.

B. For students of session 1898-99:—(1) English Composition; (2) English Philology; (3) English Imaginative Literature, 1796-1824, especially the poems of Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, and the following Novels, *The Heart of Midlothian*, *The Bride of Lammermoor*, *Ivanhoe*; (4) Shakespeare's *Hamlet* (Clar. Press); (5) Goldsmith's *Vicar of Wakefield*.

Students of sessions prior to 1896-97 can take either paper; students of sessions prior to 1893-94 can omit Philology; but no third paper will be set.

April and October, 1900.

A. For students of session 1898-99, the subjects of that session specified above under B.

B. For students of session 1899-1900, the subjects specified on p. 66.

Students of sessions prior to 1898-99 can take either paper; students of sessions prior to 1893-94 can omit Philology; but no third paper will be set.

FOR HONOURS.

In 1898, and until further notice, the subjects of examination in English I (Language, Literature, and British History) will be as follows:—

I. LANGUAGE.—English Philology, with Sweet's *Anglo-Saxon Reader* and Morris and Skeat's *Specimens of Early English*, Parts 1 and 2.

II. LITERATURE.—(1) General History of English Literature either from 1350 to 1600, or from 1600 onwards. (2) Shakespeare. (3) A special subject, viz., the works of two or (generally) three authors, one being a poet and one a prose writer. The special subject must be approved by the Examiners, and candidates should apply to the Professor in regard to it.

III. HISTORY.—The History of Great Britain and Ireland, either (a) from 1714 to 1815, with special reference to the following works of Burke:—*Thoughts on the Present Discontents*; *Speeches on American Taxation*; *Reflections on the French Revolution*; or (b) from 1603 to 1714, with special reference to the following works:—Milton's *Reason of Church Government* and *Tenure of Kings and Magistrates*; Butler's *Hudibras*; Dryden's *Satires*; Swift's *Conduct of the Allies*.

N.B.—Students should send to the Professors concerned, at least two months before the examination, notice of the periods and subjects selected.

1 See p. 165, and first note at foot of page.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
FRENCH	<p>October, 1899.</p> <p>I. The subjects of the Class Lectures. II. Translation into and from French. III. History of France from the Revolution (exclusive)</p> <p>April and October, 1900.</p> <p>I. Translation into and from French. II. Questions in Grammar and Essay in French on the subjects of the Class Lectures. III. Oral Examination.—Among other questions (see syllabus for work of class) one will be put on the History of France from the time of the Revolution (exclusive). For students of session 1898-99.—The questions will be set on the subjects of the Class Lectures of session 1898-99.</p>	<p>October, 1899.</p> <p>I. Translation into French from English and from Old French. II. Philology: History of the French Language; Historical Grammar. III. (a) General History of French Literature (text-book: Lanson, <i>Histoire de la Littérature française</i>); (b) Molière, or J. J. Rousseau, or Victor Hugo; (c) One of the following: (1) Chretien de Troies and the Arthurian Romances, (2) Rabelais, (3) La Pléiade, (4) Pascal, (5) The "Encyclopédistes," (6) Alfred de Vigny. IV. General History of France. French Institutions.</p> <p>April and October, 1900 and 1901.</p> <p>I. Translation into and from French. II. (a) Translation from Old French into Modern French; (b) Essay in English or in French on Historical Grammar. III. Essay in French on one of the following: (a) The subjects of the Class Lectures for session 1899-1900, and the General History of French Literature in the 19th century; or (b) La vie et les œuvres des Moralistes français: Montaigne, Pascal, La Rochefoucauld, La Bruyère, Vauvenargues, and the General History of French Literature in the 19th century. IV. Oral Examination.—Among other questions (see syllabus for work of class) one will be put on the History of French Civilisation in the 19th century. N.B.—For students of session 1898-99 see syllabus for October, 1899.</p>

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
GERMAN	<p>October, 1899.</p> <p>(1) History of the German Literature after Goethe's death; (2) Higher New-High-German Syntax on an historical and comparative basis; (3) Translation into and from German; (4) A short German Essay; (5) Körner's <i>Zwing</i>; Tieck's <i>Jungfer Tischlermeister</i>; Kleist's <i>Penthesilea</i>; Lenau's <i>Faust</i>; Platen's <i>Abissiden</i>; Heine's <i>Lieder und Gedichte</i> (ed. Buchholtz, "Golden Treasury Series"); Uhland's <i>Lyrics</i>; Heibel's <i>Maria Magdalena</i>; Freiligrath's <i>Gedichte</i>; Freytag's <i>Aus meinem Leben</i>; Jordan's <i>Sebaldis</i>; Wildenbruch's <i>Karolinger</i>; Brandt, <i>A Grammar of the German Language</i>; Wackernagel, <i>Geschichte der deutschen Literatur</i>.</p> <p>April and October, 1900.</p> <p>(1) Goethe and Schiller; (2) Higher New-High-German Grammar on an historical and comparative basis; (3) Translation into and from German; (4) A German Essay; (5) Goethe's <i>Goetz, Iphigenie, Hermann und Dorothea, Dichtung und Wahrheit, Ränke Fuchs, Faust</i>, I and II; Schiller's <i>Balladen, Kalate und Liebe, Don Carlos, Braut von Messina, Jungfrau von Orléans, Maria Stuart, Wallenstein</i>; Brandt, <i>A Grammar of the German Language</i>; Karl Goedeke, <i>Goethe's Leben</i>; Karoline von Wolzogen, <i>Schiller's Leben</i>.</p>	<p>October, 1899. April and October, 1900.</p> <p>I. Paper. The modern German written language. Translation from English into German, from German into English; German Phonetics.</p> <p>II. Paper. General History of the German Literature from the earliest times to the present (in German).</p> <p>III. Eighteenth century German; German style; German prosody; An essay in German.</p> <p>IV. Lessing. One of the following subjects;—(a) the Gothic Language; (b) Nibelungenlegend; (c) the German novel; (d) Goethe; (e) Heinrich von Kleist; (f) Weltanschauungsgeschichte of Germany.</p> <p>Books prescribed:—Brandt, <i>A Grammar of the German Language</i>; M. Heyne, <i>Ullas</i>; Wackernagel, <i>Geschichte der deutschen Literatur</i>; Erieb Schmidt, <i>Lessing</i>; Bielowsky, <i>Goethe</i>; <i>Nibelungenlegend</i>, ed. by Zarneke; O. Brahm, <i>Heinrich von Kleist</i>.</p> <p>April and October, 1901.</p> <p>I. Paper. The modern German written language. German Grammar. Translation from English into German, from German into English. An Essay in German.</p> <p>II. Paper. General History of the German Literature from the earliest time to the present (in German). Sixteenth century German; Historical German Grammar.</p> <p>III. Paper. The History of the Faust Legend.</p> <p>IV. Paper. One of the following subjects: (a) The Old High German Language; (b) The German Poetry of Chivalry; (c) The German Drama; (d) Schiller; (e) Wilhelm Jordan; (f) Weltanschauungsgeschichte of Germany.</p> <p>Books prescribed:—Brandt, <i>A Grammar of the German Language</i>; Braune, <i>Althochdeutsche Grammatik</i>, and <i>Althochdeutsches Lesebuch</i>; Max Koch, <i>Geschichte der deutschen Literatur</i>; Kuno Fischer, <i>Goethe's Faust, Volksbuch Faust</i> of 1587; Goethe's <i>Faust</i>; Klingers <i>Faust</i>, Lenau's <i>Faust</i>; Brahm, <i>Schiller's Leben</i>.</p>

FOR HONOURS.

FOR ORDINARY DEGREE.

IN

October, 1899.

The Book of Genesis.
Psalms CVII—CXXXVII.
The Book of Amos.
Unseen translation. Unpointed text to be pointed and translated. Translation from English into Hebrew. Questions on Grammar, Syntax, and Accents.
The History of Israel, from the accession of Solomon to the downfall of Samaria.
Whitehouse's *Primer of Hebrew Antiquities*.
Candidates are expected to be acquainted with Pentateuch Introduction as far at least as it is set forth in Spurrell's *Notes on the Book of Genesis* (2nd edition).

HEBREW

April and October, 1900.

The Book of Genesis.
Psalms I—XXI.
The Book of Micah.
The History of Israel, from the seclusion of the kingdom to the downfall of Jerusalem.
Hebrew Archaeology; History of the Massoretic Text (Weir's *Short History*).
Pentateuch Introduction, as far at least as it is set forth in Spurrell's *Notes on the Book of Genesis* (2nd edition).
Unseen translation; unpointed text to be pointed and translated; translation from English into Hebrew; and Grammar, Syntax, and Accents.

LOGIC

The Class Lectures. Descartes' *Method* and *Meditations* (Veitch's translation).

April and October, 1899 and 1900.

- (a) Logic and Psychology: the subjects of the Class Lectures. Ordinary and Advanced. Candidates will be expected to have read some of the larger modern treatises on Logic, such as Mill, Venn, or Sigwart.
- (b) Metaphysics: (1) Kant's *Kritik of Pure Reason*. (2) History of Greek Philosophy, either (a) up to Aristotle, or (b) Aristotle and the Post-Aristotelian systems (exclusive of Neo-Platonism).
- (c) Candidates are, in addition, expected to offer for examination some book, author, period, or subject, to be approved by the Professor.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
MORAL PHILOSOPHY	<p>The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; and the <i>Republic</i> of Plato (translated by Davies and Vaughan).</p>	<p>Candidates for Honours will be examined in:—(1) The Professor's Lectures; (2) Aristotle's <i>Ethics</i> (omitting Books VII, VIII, and IX), Aristotle's <i>Politics</i>, Books I—IV, and, in connection therewith, the History of Ethical Thought in Greece previous to Aristotle; (3) Spinoza's <i>Ethics</i>; (4) The Ethical Theory of Kant, together with Caird's <i>Philosophy of Kant</i>, Books II, III, IV, and Green's Prolegomena to Ethics; (5) the general history of Modern Hedonism.</p> <p>Candidates are, in addition, expected to offer for examination some book, subject, author, or period; or to submit a thesis on a subject in Philosophy, either in Logic or in Moral Philosophy, such theses to be lodged by the candidate when entering his name for examination.</p>
POLITICAL ECONOMY	<p>The Lectures and Text-books of the session in which the student has attended the class.</p>	<p>In 1899 and until further notice the subjects of examination for Honours in ECONOMIC SCIENCE will be as follows:—</p> <p>I. Political Economy. The subjects of the Class Lectures, Ordinary and Advanced. Prescribed books: Green, <i>Principles of Political Obligation</i>; Adam Smith, <i>Wealth of Nations</i>, Book V; Marshall, <i>Principles of Economics</i>; Bastable, <i>Public Finance</i>; Seligmann, <i>Essays on Taxation</i>; Bagehot, <i>Lombard Street</i>; Keynes, <i>Scope and Method of Political Economy</i>; Cunningham, <i>Growth of English Industry and Commerce</i>, Vol. II; Nicholson, <i>Money and Monetary Problems</i>; Goschen, <i>Foreign Exchanges</i>; Sidgwick, <i>Principles</i>, Book V. Candidates will be required to submit a thesis on some subject to be approved by the Professor.</p>
HISTORY OF CIVIL LAW.	<p>The Class Lectures. (See page 166.)</p>	<p>II. <i>Either (a) Moral Philosophy</i>—see the regulations for Honours in Moral Philosophy <i>ut supra</i>.</p> <p>Or (b) History. (i) The Outlines of British History to 1815, Prescribed book: Cunningham, <i>Growth of English Industry and Commerce</i>; (ii) European History, 1715 to 1815, with special reference to the economic history of Great Britain and France. Prescribed books: Adam Smith, <i>Wealth of Nations</i>, Books IV and V; Leone Levi, <i>History of British Commerce</i>; De Tocqueville, <i>France before the Revolution</i>; W. Walker Stephens, <i>Life and Writings of Turgot</i>; Turgot, <i>The Formation and Distribution of Riches</i>; A. Young, <i>Travels in France</i> (ed. M. Betham Edwards).</p>
PHILOSOPHY OF LAW	<p>Holland's <i>Jurisprudence</i> (any edition after the fourth), Maine's <i>Ancient Law</i>, Miller's <i>Philosophy of Law</i>.</p>	

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
EDUCATION	<p>October, 1899.</p> <p>I. Theory of Education. II. Education as an Art. III. History of Education: (1) Education in Ancient Greece and Rome; (2) The Rise of Universities, the Revival of Learning, Erasmus, Luther, the Jesuits, Montaigne; (3) Modern Primary Education, Pestalozzi, Froebel, Jacotot, Locke, Rousseau, Arnold, Stow.</p> <p>April and October, 1900.</p> <p>Theory, Art, and History of Education, as treated in the Lectures; and Rousseau's <i>Emile</i> (Payne's Translation: International Education Series).</p> <p>Fuelli, First Six Books, and Book XI, 1-21. Analytical Geometry of straight line and circle.</p> <p>Algebra, including Quadratic Equations, Progressions, and Binomial, Exponential, and Logarithmic Theorems.</p> <p>Plane Trigonometry, including the Solution of Triangles by the aid of Logarithmic tables.</p>	<p><i>Second Class.</i>—In addition, Higher Algebra; Plane Trigonometry; Analytical and Geometrical Conics, and Differential and Integral Calculus so far as treated in the Intermediate Honours Mathematical Class.</p> <p><i>First Class.</i>—In addition, Spherical Trigonometry, Solid Geometry, Differential and Integral Calculus, Differential Equations, and Elements of Finite Differences.</p> <p>Kinetics and Statics of a particle; and an elementary knowledge of Elasticity of Solids and Thermo-dynamics.</p> <p>The subject of special course on Mathematical Physics for session of attendance. Portions of Thomson's <i>Electrical Papers</i>. Rigid dynamics, and portions of Thomson and Tait's <i>Natural Philosophy</i> (large work); also, either Fourier's <i>Théorie Analytique de la Chaleur</i>, or the Mathematical theory of one of the following subjects, Electricity, Magnetism, Light, Sound, Elasticity of Solids.</p>
NATURAL PHILOSOPHY	<p>Examination on the subjects explained in the class. On the Elements of Statics and Kinetics, with the solution of problems not requiring the Differential or Integral Calculus; Experimental Science, including Sound, Light, Heat, Electricity, and Magnetism.</p> <p>The Professor's Lectures during the session in which the student has attended the class, and Popular Astronomy.</p>	
ASTRONOMY	<p>General principles—Inorganic and Elements of Organic Chemistry.</p> <p>Text-books: Bloxam's <i>Chemistry</i>; Newth's <i>Inorganic Chemistry</i>; Armstrong's <i>Organic Chemistry</i>; Remsen's <i>Organic Chemistry</i>; Clowes' <i>Practical Chemistry</i>; Gattermann's <i>Practical Methods of Organic Chemistry</i>; R. Lloyd Whiteley's <i>Organic Chemistry</i>.</p>	
CHEMISTRY		

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
ZOOLOGY	Text-books by Claus; Parker & Haswell; and Rolleston's <i>Forms of Animal Life</i> (Jackson's ed.). The general principles of the Science of Botany, including External Morphology, Anatomy and Physiology; also the chief characters of the Natural Orders of Phanerogams represented in the British Flora, and of the leading types of Pteridophyta, Bryophyta, and Thallophyta.	
GEOLOGY ¹	J. Geikie's <i>Outlines of Geology</i> ; Green's <i>Physical Geology</i> and Lyell's <i>Manual</i> .	
HISTORY	The Professor's Lectures during the session in which the student attended the History Class; and the Text-books recommended for reading during that session.— <i>N.B.</i> A knowledge of Geography will be required.	Students will be examined in the following subjects in 1899-1900, and until further notice:—(1) The Outlines of British History to 1837. This subject includes the History of England and Scotland, and the History of Ireland from the reign of Henry II. (2) The General History of the Constitution and Constitutional Law. Books recommended: Stubbs, <i>Constitutional History</i> ; Erskine May, <i>Constitutional History</i> ; Aulton, <i>Law and Custom of the Constitution</i> ; Dicey, <i>Law of the Constitution</i> ; Bagehot, <i>The English Constitution</i> . (3) The Constitutional History of the Seventeenth Century, with special reference to the period, 1624-1660. Prescribed books: Hallam, <i>Constitutional History</i> ; Gardiner, <i>Documents of the Puritan Revolution</i> . (4) European History from 1714 to 1815. Prescribed books: <i>Recueil des Instructions données aux Ambassadeurs de France, Autriche</i> (ed. by A. Sorel) from p. 151; <i>Mémoires de Frédéric II., Prussien</i> and <i>Correspondance of the first Earl of Malmesbury, N.B.</i> —In (1) and (4) questions will be set in Historical Geography. In April and October, 1901, the examination under (3) will be on the Early History of the Constitution till 1295. Prescribed books: Stubbs, <i>History and Charters</i> ; Pollock and Maitland, <i>History of English Law</i> .
CONSTITUTIONAL LAW AND HISTORY	The Class Lectures and Taswell-Langmead's <i>English Constitutional History</i> ; Stubbs' <i>Select Charters</i> (Introductory Sketch only). <i>Note.</i> —Candidates for LL.B. are referred to page 222 of <i>Calendar</i> for additional authorities recommended.	
ROMAN LAW	Institutes of Justinian (ed. Moyle or Sanders) and the Class Lectures. <i>Note.</i> —Candidates who aim at the LL.B. standard are recommended, in addition to the above, to profess <i>Dig.</i> , Lib. XVIII, Tit. I. The title is translated and annotated by Mackintosh—Roman Law of Sale.	
PUBLIC LAW	Hall's <i>International Law</i> (third or fourth ed.).	

¹ The examination in this and the three preceding subjects will be oral and practical, as well as by written papers.

TABLE OF EXAMINATIONS IN THE SUBJECTS FOR THE DEGREE OF M.A., TO BE HELD DURING SESSION 1899-1900.

Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.	FEE.	Subjects of Examination.	Dates of Written Examinations and Hours at which the different Papers will be set.	
			September—October, 1899.	March—April, 1900.
14th Sept. or 8th March	£1 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID.	(Astronomy, -	Saturday, 30th Sept., 9—12 noon.	Saturday, 24th March, 9—12 noon.
		Geology, -	Do., do., 1—3 p.m.	Do., do., 1—3 p.m.
		Zoology, -	Monday, 2nd Oct., 10—11.30 a.m.	Monday, 26th March, 10—11.30 a.m.
		Botany, -	Do., do., 12.30—2 p.m.	Do., do., 12.30—2 p.m.
		Chemistry, -	Do., do., 3—4.30 p.m.	Do., do., 3—4.30 p.m.
		(French (1st Paper), -	Tuesday, 3rd Oct., 3—5 p.m.	Tuesday, 27th March, 3—5 p.m.
		Do. (2nd Paper), -	Thursday, 5th Oct., 3—5 p.m.	Thursday, 29th March, 3—5 p.m.
		German (1st Paper), -	Wednesday, 4th Oct., 3—5 p.m.	Wednesday, 28th March, 3—5 p.m.
		Do. (2nd Paper), -	Friday, 6th Oct., 9—11 a.m.	Friday, 30th March, 9—11 a.m.
		Philosophy of Law, -	Monday, 2nd Oct., 9—12 noon.	Monday, 26th March, 9—12 noon.
		Public Law, -	Tuesday, 3rd Oct., 2—5 p.m.	Tuesday, 27th March, 2—5 p.m.
		Education, -	Do., do., 9—12 and 2—5 p.m.	Thurs., 29th March, 9—12 and 2—5 p.m.
		Roman Law, -	Wednesday, 4th Oct., 9—12 noon.	Wednesday, 28th March, 9—12 noon.
		Constitutional Law and History, -	Do., do., 2—5 p.m.	Do., do., 2—5 p.m.
20th Sept. or 6th March		Political Economy, -	Do., do., 6—9 p.m.	Do., do., 6—9 p.m.
		History, -	Thurs., 5th Oct., 9—12 and 2—5 p.m.	Friday, 30th March, 9—12 and 2—5 p.m.
		Mathematics, -	Friday, 6th Oct., 10—1 and 2—5 p.m.	Friday, 6th April, 10—1 and 2—5 p.m.
		Natural Philosophy, -	Saturday, 7th Oct., 10—1 and 2—5 p.m.	Saturday, 7th April, 10—1 and 2—5 p.m.
		Latin, -	p.m.	
		Greek, -	Monday, 9th Oct., 10—12, 1—3, and 4—6 p.m.	Monday, 2nd April, 10—12, 1—3, and 4—6 p.m.
		Latin and Greek, -	Tuesday, 10th Oct., 10—12, 1—3, and 4—6 p.m.	Tuesday, 3rd April, 10—12, 1—3, and 4—6 p.m.
		Classics. Mental Philosophy, -	Thursday, 12th Oct., and following days at 11 a.m. (Orals.)	Thursday, 5th April, and following days at 11 a.m. (Orals.)
		Logic, -	Friday, 13th Oct., 2—6 p.m. (Honours.)	Saturday, 31st March, 2—6 p.m. (Honours.)
		Moral Philosophy, -	Wed., 11th Oct., 10—1 & (Hon.) 2—5 p.m.	Wed., 4th April, 10—1 & (Hon.) 2—5 p.m.
English Literature, -	Thur., 12th Oct., 10—1 & (Hon.) 2—5 p.m.	Thur., 5th April, 10—1 & (Hon.) 2—5 p.m.		
Hebrew, -	Friday, 13th Oct., 10—1 p.m.	Saturday, 31st March, 10—1 p.m.		
		Saturday, 14th Oct., 10—1 & 2—5 p.m.	Thurs., 29th March, 10—1 and 2—5 p.m.	

¹ When names are not given in, and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

2.—GRADUATION IN SCIENCE.

The Scottish University Commissioners (1889) have ordained that two Degrees in Science may be conferred by each of the Universities of Scotland—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These degrees may be given in Pure Science and in Applied Science.

Degrees in Pure Science.

The following are the provisions of Ordinances No. 12¹ and No. 42 as they apply to this University:—

I. Two Degrees in Science may be conferred by the University of Glasgow—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.).

II. Every candidate for the Degree of Bachelor of Science must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by that ordinance (see pp. 156—163, 168) are applicable in all respects to candidates for the Degree of Bachelor of Science, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard²; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, exempts from the Preliminary Examination.

III. (1) Candidates for the Degree of Bachelor of Science must, in the course of not less than three academical years, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. below.

(2) Three of these courses must be in subjects prescribed for the First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

IV. (1) Four of the seven courses must be taken in this University.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science: Provided that the fees for attendance at an approved Institution or under a recognised teacher in

¹This ordinance was printed in full in the *University Calendar* for 1892-93, pp. 485-488, and the modifications made by Ordinance No. 42 were indicated, by means of square brackets, in the *University Calendar* for 1894-95.

²A student who, having passed the Arts Preliminary Examination in accordance with the provisions of Ordinance No. 11, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, shall not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science under the provisions of Ordinance No. 12. See Ordinance No. 44, Section V. Candidates for the Degree of B.Sc. in Pure Science may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary. Notwithstanding these provisions, candidates shall not be entitled to profess at the Final Science Examination Mathematics, Natural Philosophy, or Astronomy, unless they have passed the Preliminary Examination in Mathematics on the higher standard. See Ordinance No. 155, Section I.

Glasgow shall not be less than the fees exigible for the corresponding courses in the University.

V. All candidates, not matriculated students of the University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Glasgow, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; but two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of each Professor and Lecturer annually at the end of each winter session to submit to the Board of Studies a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Board of Studies shall transmit the schemes to the Faculty of Science, who shall submit them to the Senate with such observations as they may think fit to make thereon. The Senatus transmits such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

VIII. (1) There is a First Science Examination¹ in the three following subjects—viz., (1) Mathematics or Biology (*i.e.* Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects is the same as the examination in these subjects for the Ordinary Degree of Master of Arts.

(3) Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.

¹ This examination includes practical work in the subjects admitting of, or requiring it.

IX. (1) There is a Final Science Examination¹ on a higher standard in any three or more of the following subjects :—

- | | |
|---|--|
| 1. Mathematics. | 6. Physiology. |
| 2. Natural Philosophy. | 7. Geology, including Mineralogy. |
| 3. Astronomy. | 8. Zoology, including Comparative Anatomy. |
| 4. Chemistry. | 9. Botany, including Vegetable Physiology. |
| 5. Human Anatomy, including Anthropology. | |

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the Degree of Master of Arts with Honours, where the subjects are different; and where the subjects are the same the examination shall be identical.

(3) A subject already taken under the preceding section for the First Science Examination may be taken also under this section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

The Senate, with the approval of the University Court, has framed the following regulation for the Final Science Examination, viz. : A candidate shall be allowed the option of presenting himself in any one subject for the Final Science Examination, or in two, or in three or more at one time, provided always that if the candidate select Mathematics and Natural Philosophy, these subjects shall be taken together in one examination, in accordance with Ordinance No. 11, Section XIII. (1) and Ordinance No. 12, Section IX. (2).

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him: and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

¹ This examination includes practical work in the subjects admitting of, or requiring it.

DEGREE IN APPLIED SCIENCE.

XIII. Degrees in Applied Science may be instituted and conferred according to regulations to be laid down in special Ordinances applicable to each University by the Commissioners under the Universities (Scotland) Act, 1889; or after the expiry of their powers by the University Court in each University.

XIV. The provisions of Sections II. to VIII. of this Ordinance inclusive, in so far as they relate to the Preliminary and First Science Examinations, shall be applicable in all respects to degrees in Applied Science instituted as aforesaid, except where special provision is made to the contrary in the special Ordinances aforesaid.

DOCTORATE OF SCIENCE.

XV. Graduates of any University who have held the degree of Bachelor of Science for a term of five years, may offer themselves for the degree of Doctor of Science in the same University.

XVI. A candidate for the Degree of Doctor of Science shall present a thesis or a published memoir or work to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination as may from time to time be determined. [This examination is to be conducted by Examiners appointed under Ordinance No. 62, Section X. See page 198.]

The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done and the thesis composed by himself.

GENERAL.

XVII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in any of the Scottish Universities under regulations in force at the time in such University, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,¹ or with the provisions of this ordinance, may become a candidate for the Degree of Bachelor of Science.

XVIII. The Degrees of Bachelor and Doctor of Science shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIX. This ordinance came into force on 1st October, 1892.

For Dates of Examinations, see Table on page 194.

Degrees in Science in Engineering.

The following are the provisions of Ordinance No. 23, Glasgow No. 2:—

I. Two Degrees in Science in Engineering may be conferred by the

¹Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

University of Glasgow, viz., Bachelor of Science in Engineering¹ and Doctor of Science in Engineering.

II. Every candidate for the degree of Bachelor of Science in Engineering must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for degrees in Arts); and the conditions with respect thereto imposed by the said ordinance (see pp. 156—163, 168) are applicable in all respects to this ordinance except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, exempts from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. Candidates must in the course of not less than three academical years attend at least the nine courses of instruction prescribed under Section IX. below.

IV. (1) Five of the nine courses must be taken in this University. One of these courses must be a course in Engineering.

(2) Four may be taken in other Universities or institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering: Provided that the fees for attendance at an approved institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

V. It is competent to the University Court to admit to the examinations for the degree of Bachelor of Science in Engineering, and to graduation, any candidate who presents the diploma of the Glasgow and West of Scotland Technical College, and who has passed the Preliminary Examination hereinbefore appointed: Provided that before such candidate shall be admitted to the Final Science Examination prescribed under Section XI. hereof:—

- (1) He shall, after having received the said diploma, have attended in this University at least three full courses, during at least one academical year; and of these courses one at least shall be in Engineering.
- (2) He shall, after having received the said diploma, have attended in this University such courses as will, along with the classes taken at the said College for the said diploma, be equivalent to the whole courses for the curriculum hereinafter instituted.

VI. The University Court may make regulations to enable candidates not matriculated students of the University availing themselves of the permission to attend Lectures at approved institutions or by recognised teachers in Glasgow, to obtain on payment of a fee not exceeding in

¹ By order of the Council of the Institution of Civil Engineers the possession of the Degree of B.Sc. in Engineering exempts candidates applying for election into the Institution as Associate Members from passing the examination prescribed by the Council.

amount the Matriculation Fee paid by the students of the University, a right to the use of the Library of the University.

VII. (1) The Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; and two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VIII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow.

IX. The subjects of study shall be as follows:—

1. Mathematics, including Analytical Geometry, and Differential and Integral Calculus.
2. Natural Philosophy, including Applied Higher Mathematics.
3. Chemistry.
4. A course in the Physical Laboratory, or in the Chemical Laboratory, or of Practical Chemistry.

and either:—

- 5, 6. Two courses in Engineering, including Laboratory Practice.
- 7, 8. Two courses of practical work in Drawing.
9. A course in one of the following:—
 - (a) Astronomy and Geodesy.
 - (b) Geology and Mineralogy.
 - (c) Naval Architecture.
 - (d) Engineering Laboratory, Mechanical or Electrical (Special Course).
 - (e) Electricity—Pure and Applied.

or:—

- 5, 6. Two courses in Naval Architecture with Marine Engineering.
- 7, 8. Two courses of practical work in Ship and Engineering Drawing.
9. A course in Engineering, including Laboratory Practice.

Provided that during the three years immediately subsequent to the date

on which this ordinance shall come into force, the courses in Engineering herein prescribed shall not necessarily include Laboratory Practice.

X. (1) There shall be a First Science Examination¹ in subjects 1, 2, 3, and 4 of the section immediately preceding.

(2) The examination in (1) Mathematics and (2) Natural Philosophy shall include the higher branches of Mathematics specified under Mathematics and the higher Mathematics included under Natural Philosophy in the section immediately preceding¹; but it shall be optional to candidates to pass the same examination in either or both of these subjects as that required for the Ordinary Degree of Master of Arts: Provided that in that case they shall be required before graduation to pass a subsequent examination in the remainder of the subject or subjects.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

XI. (1) There shall be a Final Science Examination² in subjects 5, 6, 7, 8, and 9 of Section IX. hereof; and, if required, in the higher branches of Mathematics as provided in Section X., Sub-section 2 hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the First Science Examination and have attended the required courses in the subject or subjects professed: Provided that for this purpose subjects 5, 6, 7, and 8, specified in Section IX. hereof, shall be deemed one subject.

XII. A candidate for the degree of Bachelor of Science in Engineering shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XIII. It is competent to the Examiners for the degree of Bachelor of Science in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIV. It is competent to the University Court of the University of Glasgow to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable by the development of Engineering Science, or in consequence of further provisions having been made within or without the University for the study of any special branch of the said Science: Provided that in no case shall the number of full courses of study required be less than the number required for the Degree of Bachelor of Science in Pure Science, as specified in Ordinance No. 12.

¹The Senate has authorised the Examiners in Mathematics and Natural Philosophy to return as having passed in the elementary part of either or both of these subjects any candidate who has attempted the examination in the higher branches of either or both and has failed to pass, provided that in the opinion of the Examiners the candidate has attained a standard equivalent to that required for the ordinary Degree of M.A.

²This examination includes practical work in the subjects admitting of, or requiring it: Provided that, in the case of Engineering Students, a practical examination shall be passed in Chemistry or Physics according as the Chemical or the Physical Laboratory Course has been chosen as part of the qualifying curriculum.

DOCTORATE OF SCIENCE IN ENGINEERING.

XV. Graduates of the University of Glasgow who have held the degree of Bachelor of Science in Engineering for a term of five years, may offer themselves for the degree of Doctor of Science in Engineering in the said University.

XVI. A candidate for the degree of Doctor of Science in Engineering shall present a thesis or a published memoir or work to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and shall be accompanied by a declaration, signed by him, that these conditions have been satisfied.

GENERAL.

XVII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Engineering and Doctor of Science in Engineering, as the case may be, on payment of the fees required.

XVIII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in Engineering in the University of Glasgow, under regulations in force at the time therein, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,¹ or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science in Engineering.

XIX. The degrees of Bachelor and Doctor of Science in Engineering shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XX. This Ordinance came into force from and after the date on which it was approved by Her Majesty in Council.

For Dates of Examinations, see Table on page 194.

DEGREES IN SCIENCE IN AGRICULTURE.

The regulations for the Degree of Bachelor of Science in Agriculture are contained in Ordinance No. 134 of the Universities Commission (1889), and are as follows:—

I. A degree of Bachelor of Science in Agriculture may be conferred by the University of Glasgow.

II. Every candidate for the degree of Bachelor of Science in Agriculture must pass the Preliminary Examination prescribed by Ordinance No. 11 [General, No. 6—Regulations for Degrees in Arts]; and the conditions with respect thereto imposed by the said Ordinance (see

¹ Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

pp. 156-163, 168) shall be applicable in all respects to this Ordinance, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard;¹ (3) a degree in Arts (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the *Senatus Academicus*, shall exempt from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. (1) Candidates must in the course of not less than three Academic years, within the meaning of the Ordinance hereinbefore first mentioned, attend at least twelve courses of instruction, in the subjects specified in Section VIII. of this Ordinance.

(2) It shall be the duty of the *Senatus* to determine from time to time which of the said courses shall be full courses and which shall be half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

Under this subsection the Senate, with the approval of the University Court, has determined that of the subjects specified in Section VIII. of this Ordinance, Nos. 1, 2, 3, 4, 5, 6 and 10 shall be taught in full courses, and Nos. 7, 8, 9, 11 (a), 11 (b), 11 (c) and 12 in half courses, and that the number of meetings shall be those inserted in square brackets in Section VIII. opposite the several subjects.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Glasgow. The course in Agriculture and Rural Economy must also be taken in the University of Glasgow, if instruction in the said subjects be provided in the University, or in the Glasgow and West of Scotland Technical College: Provided always that that course in the said College shall be accepted as equivalent to a course in the University, subject to the following conditions:—

(a) The *Senatus Academicus* shall be represented on the governing body of the Technical College.

(b) All future appointments to the Chair of Agriculture in the Technical College shall be vested in a Joint Committee, consisting of three members of the University Court and of three members of the governing body of the Technical College.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Agriculture: Provided that the fees for attendance at an

¹Candidates for the Degree of B.Sc. in Agriculture may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary. Notwithstanding these provisions candidates shall not be entitled to profess at the Final Science Examination Mathematics, Natural Philosophy, or Astronomy, unless they have passed the Preliminary Examination in Mathematics on the higher standard.

approved Institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

(3) Residence and practical work at a farm shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

Under this subsection the following regulations have been made by the Senate, with the approval of the University Court.

1. Residence and practical work at a farm for twelve months shall be required, and the candidate must not be under sixteen years of age when he commences the residence.

2. The residence must be for twelve consecutive months, except in special cases in which the Senate may grant recognition of residence during two shorter periods amounting together to at least twelve months.

3. The candidate must produce evidence, satisfactory to the Senate, that he has fulfilled these regulations.

V. All students availing themselves of the permission to attend the lectures of the teachers in the various departments of Agriculture in the Glasgow and West of Scotland Technical College, or of teachers in other approved institutions in Glasgow, or of other recognised teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by the students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Faculty of Science for its consideration a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the immediately preceding section shall not apply to approved institutions or recognised teachers outside Glasgow ; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow, where such exist.

VIII. The subjects of study shall be as follows:—

- | | | |
|----|-------------------------------|--|
| | { Mathematics [100 meetings]. | |
| 1. | { or Biology, <i>i.e.</i> , | { Zoology [100 meetings, viz., 50 lectures and 50
and practical]. |
| | | { Botany, [100 meetings, viz., 50 lectures and 50
practical]. |

2. Natural Philosophy [100 meetings].
3. Chemistry [100 meetings and three months in Chemical Laboratory].
4. Agriculture and Rural Economy [100 meetings].
5. Agricultural Chemistry [100 meetings, viz., 50 lectures and 50 practical].
6. Geology [75 meetings, viz., 50 lectures and 25 practical demonstrations].
7. Veterinary Hygiene [50 meetings].
8. Agricultural Botany [50 meetings].
9. Agricultural Entomology [25 meetings].
10. Economic Science as applied to Agriculture [100 meetings].¹
11. One of the following:—
 - (a) Forestry [50 meetings].
 - (b) Experimental Physics [50 meetings].
 - (c) Engineering [50 meetings].
12. Engineering Field Work [50 meetings].

IX. (1) There shall be a First Science Examination in the three following subjects—viz., (1) Mathematics or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects shall be the same as the examination in these subjects for the degree of Bachelor of Science, under the provisions of Ordinance No. 12 [General, No. 7—Regulations for Degrees in Science].

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

X. (1) There shall be a Final Science Examination in the remaining subjects (4 to 12 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

XI. A candidate for the degree of Bachelor of Science in Agriculture shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. The Examiners for the degree of Bachelor of Science in Agriculture shall be the Professors of the subjects in the Curriculum in the University of Glasgow, the Professor of Agriculture in the Glasgow and West of Scotland Technical College, and such additional Examiners as the University Court shall see fit to appoint.

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XIII. Candidates who produce certificates that they have satisfied

¹ The Glasgow and West of Scotland Technical College contemplates the institution of a special class for the teaching of this subject in 50 meetings. Until this special class shall be instituted candidates are required to attend the ordinary class of Political Economy [100 meetings]. After both classes are available students will have the option of taking either. In the examination prescribed under Section X. every candidate shall be required to work a paper of questions on Economic Science as applied to Agriculture.

all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Agriculture, on payment of the fees required.

XIV. The degree of Bachelor of Science in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XV. This ordinance came into force from and after the date on which it was approved by Her Majesty in Council.

CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

1. Mathematics, including Analytical Geometry and Differential and Integral Calculus.

2. Natural Philosophy—the work of the Ordinary Class.

3. Chemistry.

And either :—

4, 5. Two courses in Engineering, including Laboratory Practice.

6, 7. Two courses of practical work in Drawing.

8. A course in one of the following :—

(a) Astronomy and Geodesy.

(b) Geology and Mineralogy.

(c) Naval Architecture.

(d) Engineering Laboratory, Mechanical or Electrical (special course).

(e) Electricity—Pure and Applied.

Or :—

4, 5. Two courses in Naval Architecture with Marine Engineering.

6, 7. Two courses of practical work in Ship and Engineering Drawing.

8. A course in Engineering, including Laboratory Practice.

Any candidate who commenced his course previous to session 1898-99 may complete it in accordance with the regulations published in the *Calendar* of 1897-98.

No candidate is admitted to the special examination for the certificate, in any department, till he has given regular attendance upon, and duly performed the work of the prescribed course of study in that department.

Attendance on the classes of Mathematics, Natural Philosophy, Chemistry, or Geology, in any Chartered University in the United Kingdom having the power of granting degrees, is admitted as part of the course for the above-mentioned certificate ; but all examinations for the certificate must be passed in this University.

Candidates for Certificates of Proficiency in Engineering Science, who are graduates in Arts of any Chartered University of the United Kingdom, are exempted from study and examination in Mathematics and Natural Philosophy.

TABLE OF EXAMINATIONS FOR DEGREE OF B.Sc., TO BE HELD DURING SESSION 1899-1900.

Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date. ¹	Fee.	Dates of Written Examinations and Hours at which the different Papers will be set. The Oral Examinations in Science follow immediately after the Written.
14th Sept., 1899	£1 1s. for each subject until £5 5s. shall have been paid.	<p>Sat., 30th Sept., Astronomy, - - - 9-12 noon. Geology, - - - 1-3 p.m. Mon., 2nd Oct., Engineering Laboratory, - - - 10-1 p.m., and 2-5 p.m. Mon., 2nd " Zoology, - - - 10-11.30 a.m. Botany, - - - 12.30-2 p.m. Chemistry, - - - 3-4.30 p.m. Tues., 3rd " Engineering Drawing, etc., - - - 9-12 noon. Naval Architecture, 12.30-2.30 p.m. Ship Drawing, etc., - - - 3-5 p.m. Tues., 3rd " Anatomy, - - - 10-12 noon. Physiology, - - - 12.30-2.30 p.m. Engineer. Drawing, 2-5 p.m. Wed., 4th " Civil Engineering, - - - 10-12 noon, and 2-4 p.m. Thur., 5th " Civil Engineering, - - - 10-12 noon, and 2-5 p.m. Fri., 6th " Mathematics, - - - 10-1 p.m., and 2-5 p.m. Sat., 7th " Natural Philosophy, - - - 10-1 p.m., and 2-5 p.m.</p>
8th Mar., 1900	£1 1s. for each subject until £5 5s. shall have been paid.	<p>Sat., 24th Mar., Astronomy, - - - 9-12 noon. Geology, - - - 1-3 p.m. Mon., 26th " Engineering Laboratory, - - - 10-1 p.m., and 2-5 p.m. Mon., 26th " Zoology, - - - 10-11.30 a.m. Botany, - - - 12.30-2.30 p.m. Chemistry, - - - 3-4.30 p.m. Tues., 27th " Engineering Drawing, etc., - - - 9-12 noon. Naval Architecture, 12.30-2.30 p.m. Ship Drawing, etc., - - - 3-5 p.m. Tues., 27th " Anatomy, - - - 10-12 noon. Physiology, - - - 12.30-2.30 p.m. Engineer. Drawing, 2-5 p.m. Wed., 28th " Civil Engineering, - - - 10-12 noon, and 2-4 p.m. Thur., 29th " Civil Engineering, - - - 10-12 noon, and 2-5 p.m. Fri., 6th April, Mathematics, - - - 10-1 p.m., and 2-5 p.m. Sat., 7th " Natural Philosophy, - - - 10-1 p.m., and 2-5 p.m.</p>

¹ When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.

For Dates in regard to Science Preliminary Examination see page 161.

3.—HIGHER DEGREES IN ARTS AND SCIENCE.

In Ordinance No. 62, issued on 15th February, 1895, the Universities Commission made the following regulations for Higher Degrees in Arts and Science :—

DEGREE OF D.Sc.

I. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mathematics and Natural Philosophy under the conditions prescribed by Ordinance No. 11 (Regulations for degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Science (D.Sc.) in the same University after the expiry of five years from the date of their graduation in Arts, under the same conditions as if they held the degree of Bachelor of Science.

II. Research Students within the meaning of Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows) may offer themselves for the degree of Doctor of Science of the University in which they have prosecuted some special study or research under that ordinance, although they have not taken the degree of Bachelor of Science or the degree of Master of Arts with Honours as aforesaid, in that University : Provided—

- (1) That they hold the degree of Bachelor of Science or Bachelor of Medicine of a Scottish or any recognized University, or a degree of any such University, which the Senatus Academicus shall hold to be equivalent to the degree of Bachelor of Science or to the degree of Master of Arts with first or second class honours in Mathematics and Natural Philosophy : Provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Science, to pass an examination equivalent to an Honours or to a Final Science Examination in a group of subjects cognate to their line of work as Research Students.
- (2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.
- (3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

III. All candidates for the degree of Doctor of Science shall present a thesis or a published memoir or work, to be approved by the Senatus on the recommendation of the Faculty of Science¹: Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination conducted orally or practically, or by written papers, or

¹ Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

by all of these methods, on the subjects of his special study or of his thesis, as may from time to time be determined. The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration signed by him that the work has been done and the thesis composed by himself.

DEGREE OF D. PHIL.

IV. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Philosophy (D. Phil.) in the same University after the expiry of five years from the date of such graduation.

V. Research Students as aforesaid may offer themselves for the degree of Doctor of Philosophy of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

- (1) That they hold the degree of Master of Arts with first or second class honours in Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid: Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students, with a view to the degree of Doctor of Philosophy, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.
- (2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.
- (3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

VI. All candidates for the degree of Doctor of Philosophy shall present a thesis or a published memoir or work, which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus¹: Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it

¹ Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

shall be published by the candidate in such manner as the Senatus shall approve.

DEGREE OF D.LITT.

VII. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in any group other than Mathematics and Natural Philosophy or Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Letters (D.Litt.) in the same University after the expiry of five years from the date of such graduation.

VIII. Research Students as aforesaid may offer themselves for the degree of Doctor of Letters of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the Appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

- (1) That they hold the degree of Master of Arts with first or second class honours in any group except Mathematics and Natural Philosophy or Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid: Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Letters, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.
- (2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.
- (3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

IX. All candidates for the degree of Doctor of Letters shall present a thesis or a published memoir or work, which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus¹: Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

¹ Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

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X. The Senatus Academicus in each University shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the provisions either of Ordinance No. 12 (Regulations for Degrees in Science) or of this ordinance, for the degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters; and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them.¹ Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

XI. The Degrees of Doctor of Science in Mental Science or Doctor of Science in Philology shall no longer be conferred by any Scottish University.

XII. Candidates who have already completed the necessary attendance on classes required for the degree of Doctor of Science in Mental Science or Doctor of Science in Philology, under regulations hitherto in force in any Scottish University, may proceed to the degree of Doctor of Philosophy, or of Doctor of Letters, as the case may be, under this ordinance: Provided such candidates comply with the provisions of Section VI. or Section IX. hereof, as the case may be, and that a period of not less than five years shall have elapsed from the date of their graduation as Masters of Arts.

XIII. The degrees of Doctor of Science, Doctor of Philosophy, and Doctor of Letters shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIV. The fee to be paid for the degree of Doctor of Philosophy shall be ten guineas.

XV. The fee to be paid for the degree of Doctor of Letters shall be ten guineas.

4. GRADUATION IN MEDICINE AND SURGERY.

The Degrees in Medicine and Surgery conferred by this University are all recognised by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

Every student who began his medical studies previous to 1st January, 1892, is entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before² or after that date. All others must fulfil the requirements of the new ordinance—

¹ Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, empowers the University Court to appoint, as additional examiners under this section, persons who are Professors or Lecturers in any Scottish University other than the University granting the degree.

² These regulations may be found at pp. 188—192 of the *University Calendar* for session 1895-96, and in the *Calendars* for preceding sessions.

(Ordinance No. 14, Glasgow No. 1—Regulations for Degrees in Medicine)—the principal provisions of which are as follows :—

I. Four degrees in Medicine and Surgery are conferred by the University of Glasgow, viz., Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, and the Degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Surgery.

II. Subject to regulations to be made from time to time by the University Court, the University may also confer diplomas in Special Branches of Medical and Surgical Practice on graduates of the University in Medicine and Surgery.

III. Before commencing his medical studies, each student shall pass a Preliminary Examination in (1) English, (2) Latin, (3) Elementary Mathematics, and (4) Greek or French or German : Provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate may be substituted for one in either French or German, and an examination in any other classical language for one in Latin or Greek.¹

IV. The extent and standard of the Preliminary Examination shall be determined by the Joint-Board of Examiners constituted under Ordinance No. 13 (Regulations as to Examinations) in accordance with the terms of that ordinance.

Under this section the Joint-Board have directed that for the Medical Preliminary Examination the papers set in Latin, Greek, and Mathematics shall be the same as those set on the lower standard in these subjects in the Arts and Science Preliminary Examination.²

In English, no set books shall be prescribed, nor shall a general knowledge of the life and works of the greater authors be expected of candidates, but one or two questions may be set, giving an opportunity to candidates to show a knowledge of famous literary works. The historical questions shall not be confined to any one period, but shall cover the whole of British History, and shall be set in such a way as to give an opportunity to candidates who have confined their studies to a single period to show their knowledge. A single three hours' paper shall be set, containing an Essay, a Paraphrase, two questions on History, two on Geography, four on Grammar (including correction of sentences, parsing, analysis of sentences, and derivations), two of a literary and general kind. Eight answers shall be required. The Essay, the Paraphrase, one answer on History and one on Geography shall be compulsory.

One paper shall be set in French and one in German. The papers

The candidate for the Degrees of Bachelor of Medicine and Bachelor of Surgery must have been registered in the books of the General Medical Council at least five years prior to the date of his graduation. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 48 George Square, Edinburgh, together with a printed form of application, which may be obtained from the Assistant Clerk (Matriculation Office, University), a certificate of having passed the Preliminary Examination.

² For details see p. 158.

shall be of a lower standard than those set in these subjects in the Arts and Science Preliminary Examination. The time allowed for each of these papers shall be three hours. The paper in each subject shall comprise questions in Grammar, translation into English, a piece of English, and some short sentences in English of an idiomatic character, for translation.

It shall be in the option of any candidate for the Medical Preliminary to take the papers set on the higher standard for the Arts Preliminary in any of the subjects.

Candidates who, having taken English, Latin, Greek, Mathematics, or a Modern Language, on the higher standard, as prescribed by the Arts Ordinance for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, shall be held to have passed the Medical Preliminary in these subjects: Provided that all the required subjects are passed at not more than two examinations.

V. The Preliminary Examination shall be conducted in accordance with the provisions of Ordinance No. 13 (Regulations as to Examinations), and, subject to the provisions of the immediately succeeding section hereof, *a candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; Provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.*¹

VI. A degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination; and the Joint-Board of Examiners appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to determine what examinations, other than those for the degrees hereinbefore mentioned, shall be accepted, either in whole or in part, in place of the Preliminary Examination.

The Joint-Board have issued the following rules under the heading:—Examinations accepted as exempting from the Preliminary Examination in Medicine: *Provided always that the regulations of the General Medical Council regarding the registration of students of Medicine be complied with:—*

1. In terms of the Medical Ordinances, “a degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination.”

2. Any candidate who produces a certificate of having passed the Preliminary Examination in Arts or Science in any Scottish University, either at the University Examination or through the Leaving Certificates of the Scotch Education Department, or partly at the University Examination and partly through the Leaving Certificates, shall be held to have passed the Preliminary Examination for Medicine: Provided that the examination has included the specified subjects of General Education as required under the Regulations of the General Medical Council, and by Section III. of this ordinance.

3. A candidate who has passed the Arts and Science Preliminary

¹ The words in *italics* are taken from Ordinance No. 156, Section I.

Examination of the Joint-Board in any subject (Higher Standard where there is more than one) recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

4. A candidate who has obtained the Leaving Certificate (Honours or Higher Grade) of the Scotch Education Department in any subject recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

The regulation that all the subjects of the examination shall be passed at one or not more than two examinations shall not be held to apply to the above cases, 2, 3, and 4. But candidates complying with Rules (2, 3, and 4) must obtain a University Certificate specifying the examinations passed by them which have been accepted as equivalents to the Preliminary, and must present said certificate to the Medical Registrar in order to registration.

Further, each such candidate when applying for said certificate must, if he has not entered for any part of the Preliminary, produce a Matriculation Card from some one of the Scottish Universities.

5. Lower Grade Leaving Certificates of the Scotch Education Department will only be accepted as exempting from the Medical Preliminary Examination provided the examinations in all the requisite subjects have been taken and passed at one or not more than two examinations. [*This does not fulfil the requirements of the General Medical Council.*]

6. The following English and Irish University Examinations will be accepted (provided they include all the subjects required under the regulations of the General Medical Council, and prescribed by Section III. of this ordinance), viz.:—

OXFORD Responsions, or Moderations—provided the candidate pass the examination of the Joint-Board in English.

CAMBRIDGE Previous Examination—provided that candidates who have passed it prior to Michaelmas, 1896, shall pass the examination of the Joint-Board in English. If passed after Michaelmas, 1896, the Previous Examination will be accepted as exempting *in toto*.

OXFORD Senior Local Examinations will be accepted *pro tanto*, provided that, as regards English, the certificate shall bear that the candidate has passed in division I of the subject, and in either division 3, 4, or 5.

OXFORD Higher Examination for Women will be accepted *pro tanto*.

CAMBRIDGE Senior Local Examinations will be accepted *pro tanto*.

CAMBRIDGE Higher Local Examinations will be accepted *pro tanto*.

OXFORD and CAMBRIDGE Schools Examination Higher Certificate will be accepted *pro tanto*, provided that, as regards Mathematics, the certificate shall bear that the candidate has passed in both Elementary and Additional Mathematics.

LONDON UNIVERSITY Matriculation Examination.

DUBLIN, TRINITY COLLEGE.—Public Entrance Examination.

ROYAL UNIVERSITY OF IRELAND.—Matriculation Examination.

VICTORIA UNIVERSITY.—Preliminary Examination; Entrance Examination in Arts.

By *pro tanto* is here meant that a certificate of having passed in the examination referred to, in any subject required for the Medical Preliminary Examination, shall, as regards that subject, exempt from further examination in the said Preliminary Examination, provided that all the required subjects shall be passed at one or not more than two examinations.

7. The examinations of the following Indian, Colonial, and Foreign Universities and Colleges will be accepted (provided the examinations include all the subjects required by the General Medical Council and prescribed by Section III. of this ordinance), viz.:—

UNIVERSITIES OF (1) CALCUTTA, (2) MADRAS, (3) BOMBAY, (4) ALLAHABAD, and (5) PANJAB—Entrance Examination.

UNIVERSITIES OF (1) THE CAPE OF GOOD HOPE.—Matriculation Examination; (2) TASMANIA.—Matriculation Examination; (3) NEW ZEALAND.—Matriculation and Medical Preliminary Examinations; (4) MELBOURNE.—Matriculation Examination; (5) SYDNEY.—Matriculation Examination; (6) ADELAIDE.—Matriculation Examination, or its substitute, the Senior or Junior Public Examination.

THE PROVINCIAL EDUCATION DEPARTMENT OF ONTARIO.—Departmental Pass Arts Matriculation Examination.

TRINITY UNIVERSITY, TORONTO.—Matriculation Examination.

THE UNIVERSITY OF TORONTO.—Senior or Junior Matriculation Examination.

QUEEN'S COLLEGE AND UNIVERSITY, KINGSTON.—Matriculation Examination.

M'GILL UNIVERSITY.—Matriculation Examination.

KING'S COLLEGE, WINDSOR, NOVA SCOTIA.—Responsions.

DALHOUSIE COLLEGE, HALIFAX.—Matriculation Examination.

MOUNT ALLISON COLLEGE, SACKVILLE, NEW BRUNSWICK.—Matriculation Examination.

THE UNIVERSITY OF WINNIPEG.—Preliminary Examination in Arts.

VICTORIA COLLEGE, UPPER CANADA.—Matriculation Examination.

THE UNIVERSITY OF HALIFAX, NOVA SCOTIA.—Matriculation Examination.

THE UNIVERSITY OF FREDERICTON, NEW BRUNSWICK.—Matriculation Examination.

THE WESTERN UNIVERSITY OF ONTARIO.—Matriculation Examination.

THE UNIVERSITY OF MANITOBA.—Previous Examination.

CODRINGTON COLLEGE (BARBADOS).—English Certificate for Students of two years' standing, and Latin Certificate, or "Testamur."

GERMANY AND OTHER CONTINENTAL COUNTRIES.—Gymnasial Abiturienten-Examen, and corresponding Entrance Examinations to the Universities.

8. In the case of candidates for the Medical Preliminary Examination, who hold qualifications from Foreign or Colonial Bodies, other than Universities, whose certificates are not included in the list of

Equivalent Examinations issued by the Joint-Board, a committee in each University, consisting of the Deans of the Faculties of Arts, Science, and Medicine, is empowered to accept such certificates, if it deems them sufficient, provided that all such cases are reported to the Joint-Board at their meeting next following.

[Students would do well to ascertain at the Matriculation Office whether their Preliminary Examination is complete before beginning their medical studies.]

PROFESSIONAL EDUCATION.

VII. Candidates shall be admitted to the Degree of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions:—

1. The candidate must have been engaged in medical study for at least five years.
 2. In each of the first four years the candidate must have attended at least two courses of instruction, in one or more of the subjects of study specified in Sub-section 4 hereof—each course extending over a session of not less than five months, either continuous or divided into two terms; or, alternatively, one such course, along with two courses, each extending over a session of not less than two and a half months.
 3. During the fifth or final year the candidate shall be engaged in clinical study for at least nine months at one or more of such public hospitals or dispensaries, British or Foreign, as may be recognised for the purpose by the University Court.
 4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, including such examinations as may be prescribed in the various classes, viz.:—
- | | | |
|--|---|--|
| 1. ANATOMY, ¹ - - - - - | { | During a course of not less than five months. |
| 2. PRACTICAL ANATOMY, - - - - - | { | During two courses of not less than five months each. |
| 3. CHEMISTRY, - - - - - | } | |
| 4. MATERIA MEDICA and THERAPEUTICS, - - - | | |
| 5. PHYSIOLOGY OF INSTITUTES OF MEDICINE, - - | | |
| 6. PRACTICE OF MEDICINE, - - - - - | | |
| 7. SURGERY, ¹ - - - - - | | |
| 8. MIDWIFERY and the DISEASES peculiar to WOMEN and INFANTS. Two courses of Midwifery, of three months each, provided different departments of Obstetric Medicine be taught in each of the courses, shall be reckoned equivalent to a course of not less than five months, - - - - - | } | During courses of not less than five months. |
| 9. PATHOLOGY, - - - - - | } | |
| 10. PRACTICAL CHEMISTRY, - - - - - | | |
| 11. PHYSICS (including the DYNAMICS OF SOLIDS, LIQUIDS, and GASES, and the RUDIMENTS OF SOUND, HEAT, LIGHT, and ELECTRICITY), - - - | | |
| 12. ELEMENTARY BOTANY, - - - - - | | |
| 13. ELEMENTARY ZOOLOGY, - - - - - | | |
| 14. PRACTICAL PHYSIOLOGY, - - - - - | | |
| 15. PRACTICAL PATHOLOGY, - - - - - | | |
| 16. MEDICAL JURISPRUDENCE and PUBLIC HEALTH, - - - | } | During courses of not less than two and a half months. |

¹Students are recommended to take Junior Anatomy in their first winter and to defer taking Systematic Surgery till their third winter.

Provided always, in so far as regards the University of Glasgow, that—

(a) It shall be the duty of the Senatus to determine from time to time [after receiving through the Faculty of Medicine the opinion of the Board of Studies] the number of meetings of which such courses shall consist, and in what cases two half courses shall be deemed equivalent to a full course; and to report the determination to the University Court for its approval.¹

(b) It shall be the duty of the Professors and Lecturers to submit to the Senatus [after 1st October, 1894, the Board of Studies] annually at the end of the winter session a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. [The Board of Studies shall transmit the schemes to the Faculty of Medicine, who shall submit them to the Senate with such observations as they may think fit to make thereon.] The Senatus shall transmit such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.¹

(c) The University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

5. The candidate must have attended for at least three years the Medical and Surgical Practice of a General Hospital at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons, and is recognised for the purpose by the University Court.²
6. The candidate must have attended Clinical Surgery during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Surgery, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary surgeons of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.
7. The candidate must have attended Clinical Medicine during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Medicine, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary physicians of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.
8. The candidate must have attended a course of instruction in Mental Diseases, of such duration, and so apportioned between lectures,

¹The Universities Commission, on 18th November, 1893, ordained that for the better carrying out of the purposes of these provisos the Senate should institute a Board or Boards of Studies in the Faculty of Medicine. See Section I., Ordinance No. 42, which received the approval of Her Majesty in Council on 28th May, 1894. The provisions of this supplementary ordinance have, in the text, been combined with the provisions of the original ordinance, by means of square brackets.

²On 7th October, 1892, the University Court recognised every General Hospital in the United Kingdom which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons.

demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time determine.

Under this sub-section the Senate, with the approval of the University Court, has determined that each candidate for the Degree of M.B. and Ch.B. shall be required to attend a course of instruction in Mental Diseases, given by the University Lecturer or by a recognised teacher, consisting of not less than eighteen meetings. Six of these may be class-room lectures, and the others shall be demonstrations in the wards of an asylum for the insane.

9. The candidate must have attended a course of twenty-five meetings on Practical Pharmacy in a University or recognised School of Medicine, or have dispensed drugs for a period of three months in an hospital or dispensary, or in an establishment recognised by the Pharmaceutical Society, *i.e. in the establishment of any chemist and druggist or pharmaceutical chemist of Great Britain, or any pharmaceutical chemist of Ireland, who is registered in the books of the Pharmaceutical Society of Great Britain or of the Pharmaceutical Society of Ireland respectively.*¹
10. The candidate must have attended, for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician or surgeon, or of a member of the London or Dublin Society of Apothecaries. He must have acted as clerk in the medical and dresser in the surgical wards of a public hospital; and must also have availed himself, to such an extent as may be required by the Senatus, with the approval of the University Court, of opportunities of studying at an hospital or dispensary *Post-mortem* Examinations, Fevers, Diseases of Children, Ophthalmology, or such other special departments as may from time to time be determined.

Under this sub-section the Senate, with the approval of the University Court, has determined as follows:—

A. Each candidate for M.B. and Ch.B. shall be required to attend—

1. Demonstrations in the *post-mortem* room of a recognised hospital, with practical instruction in making *post-mortem* examinations. The student must have attended during his curriculum at least twenty examinations.
2. A course of clinical instruction in Fevers, consisting of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds.
3. A practical course of instruction in Ophthalmology of not less than twenty meetings. Six of these may be class-room lectures, and the others shall be for clinical instruction in the wards of a recognised hospital,² or in the wards of a hospital and in a dispensary both recognised for the purpose. The course shall include sufficient practical instruction in the methods of examining the eye.

B. Each candidate is also recommended to attend the follow-

¹ The explanatory words in italics are taken from Ordinance No. 54, Section II., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

² This means a hospital recognised *ad hoc*, after application to the University Court in each case.

ing:—(a) Diseases of Children, (b) Diseases of the Ear, (c) Diseases of the Throat and Nose, and (d) Diseases of the Skin, in short practical courses of ten meetings.

N.B.—This is not to be understood as preventing a teacher in any speciality giving a fuller course to such students as may desire to follow out more fully any particular branch.

11. The candidate must have attended, under the superintendence of a registered medical practitioner, twelve cases of labour, or such additional number as the Senatus, with the sanction of the University Court, may from time to time determine; or have attended for three months the practice of a lying-in hospital, or of the maternity department of a general hospital or other public charitable institution, and have conducted personally six, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.
12. The candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by the proper Government Authority to grant Certificates of Proficiency in Vaccination.¹
13. No candidate for a degree shall be deemed to have attended a class as part of the curriculum necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

VIII. With respect to the places and institutions at which the studies of the candidate may be prosecuted, the following regulations shall have effect:

1. Two of the five years of medical study must be spent in the University of Glasgow, each year of study including always the attendances specified in Section VII., sub-section 2.
2. The remaining three years may be spent in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such medical schools or under such teachers as may be recognised for the purpose by the University Court, each year of study during the first four years including always the attendances specified in Section VII., sub-section 2.
3. Of the subjects of study specified in Section VII., sub-section 4, not less than eight must be taken in the University of Glasgow, or (subject always to the provisions as to attendance contained in the immediately preceding sub-sections) in some other University of the United Kingdom, or in some Foreign or Colonial University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court, or in a College incorporated with, or affiliated to a University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court: Provided always that where in any of said subjects of study two or more courses are required, the taking of one of those courses shall constitute a taking of the subject for the purpose of this sub-section.

¹ The recognised Vaccine Departments in Glasgow are—Western Infirmary, Royal Infirmary, and Faculty of Physicians and Surgeons.

4. The remainder of such subjects of study may (subject always as aforesaid) be taken in such medical schools or under such teachers as may be recognised for the purpose by the University Court.
5. All candidates, not Matriculated Students of the University, availing themselves of the permission to attend the Lectures of Extra-Academical Teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having, in respect of such payment, a right to the use of the Library of the University.
6. The fee for attendance, for purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Glasgow shall be not less than the amount exigible for the corresponding courses in the University.
7. The University Court shall not recognise as qualifying for examination in any of the subjects specified in Section VII., sub-section 4, the class of any teacher who is at the time a teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects: Provided always that a Professor or other teacher in any endowed public College or institution, who by the terms of his appointment is required to teach more than one subject of medical study therein, may be recognised under sub-section 2 of this section, as a teacher of any one of the subjects which he teaches.
8. A teacher, attendance on whose course of instruction shall, before the date of the approval of this ordinance by her Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such teacher may continue to be recognised as heretofore.
9. It shall be in the power of the University Court, if it shall see cause, at any time to withdraw or suspend any recognition which it may have granted.

IX. In the University of Glasgow it shall be the duty of the Professors of the subjects specified in Section VII., sub-section 4 hereof (except Practical Anatomy and such other subjects as the Senatus, with the approval of the University Court, may from time to time determine), so to conduct the courses that Students may receive instruction sufficient for graduation in any one of the said subjects by attendance on one course of five or six months, or of two and a half or three months, as the case may be.¹

¹ Doubt being entertained as to the construction of this Section, the question was submitted to the Universities Commissioners, and evoked from them the following deliverance:—

It is not intended to require of the Professor a complete course of instruction by lectures during each session, or to limit the examinations for degrees to subjects which shall be discussed in the lectures of the Professor at the time that the student attended the course. The word "instruction," as used in this Section, is to be held to include lectures upon such parts of the subject as the Professor may be able to overtake, supplemented by directions as to the use of text-books or other sources of information for the remainder of the subject: and it is also intended that the examinations may be taken over the whole field, even when the Professor has not been able to include it all in his course of lectures.

X. If any candidate shall, before presenting himself for his Preliminary Examination, have attended in any University of the United Kingdom, or in any University or Institution specially approved, or under any Teacher specially recognised for the purpose by the University Court, a course or courses of instruction in Physics, Chemistry, Botany, or Zoology, equivalent in the judgment of the Senatus to the qualifying course in the same subject in the University of Glasgow, such attendance shall (notwithstanding anything hereinbefore ordained) be held as entitling him to be examined in these subjects; and if the candidate shall have attended such course or courses in each of the said subjects, he shall be held to have completed his first year of Medical Study: Provided always that the evidence of such attendance at such equivalent course or courses shall be presented to the Senatus at the time when the candidate presents himself for his Preliminary Examination; and the Senatus shall, if satisfied, grant a certificate to that effect: Provided also that *the provisions of this section shall not have effect except where the University Court shall allow their application after a report by the Senatus Academicus, setting forth special grounds therefor in the case of any candidate named in the report.*¹

PROFESSIONAL EXAMINATION FOR THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY.²

XI. Each candidate shall be examined both in writing and orally, and also clinically where the nature of the subject admits, in the following divisions, viz.:—*First*, in Botany, Zoology, Physics, and Chemistry; *Second*, in Anatomy, Physiology, and Materia Medica and Therapeutics; *Third*, in Pathology and Medical Jurisprudence and Public Health; *Fourth*, in Surgery and Clinical Surgery, Practice of Medicine and Clinical Medicine, and Midwifery.

In subjects which admit of practical instruction, the examination shall be such as to test the practical acquirements of the candidate.

Provided always that if a candidate have obtained in a University of the United Kingdom, or other University specially recognised for the purpose by the University Court, a degree in Science or in Arts, granted in either case after a course of study and an examination in Botany, Zoology, Physics, and Chemistry, he shall be held to have passed his examinations in the said subjects.

Provided also that if a candidate have completed in a University of the United Kingdom a course of study and passed an examination in Botany, Zoology, Physics, or Chemistry qualifying for a degree in Science or in Arts, he shall be held to have passed the examinations in such subject or subjects.

If a candidate have obtained a degree in Science or in Arts in any University other than a University of the United Kingdom, granted in either case after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, it shall be in the power of the University Court to exempt such candidate from the examinations in such subject or subjects:

¹ The proviso in italics is taken from Ordinance No. 54, Section V., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

² For Table of Fees and Dates of Examinations, see page 215.

*Provided that the course of study and the standard of examination in each case are satisfactory in the judgment of the Senatus Academicus.*¹

XII. Candidates who profess themselves ready to submit to an examination in the subjects comprised in the first division, viz.:—Botany, Zoology, Physics, and Chemistry, may be admitted to examination in all or any two of these subjects at any examination held after they have attended a full course in each of the subjects professed.

XIII. Candidates who have passed their examination in the subjects comprised in the first division may be admitted to examination in the second division at the end of the third winter session.

Provided that candidates who so desire may postpone their examination in *Materia Medica* and *Therapeutics* until the close of the summer session following.

XIV. Candidates who have passed their examinations in the subjects comprised in the first and second divisions may be admitted to examination in the third division at the end of the fourth winter session.

Provided that candidates who so desire may postpone their examination in *Medical Jurisprudence* and *Public Health* until the close of the summer session following.

XV. Candidates who have passed their examinations in the subjects comprised in the first, second, and third divisions may be admitted to examination in the fourth or final division, when they have completed the fifth year of study.

XVI. If any candidate at these examinations be found unqualified in one or more subjects he shall not again be admitted to examination unless he has pursued his medical studies for such time, and subject to such conditions, as the Faculty of Medicine may prescribe.

XVII. If any candidate at these examinations be found to have passed in one or more subjects with sufficient merit, he shall not be liable to re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects comprised in the same division as hereinbefore specified.

XVIII. Every candidate must deliver, on or before such day as the Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation, and that he will not be, on the day of graduation, under articles of apprenticeship to any surgeon or other master.

XIX. After the candidate has satisfied the Examiners, the Dean of the Faculty of Medicine shall lay the proceedings before the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.²

XX. Candidates for graduation shall produce evidence of their having conformed to the regulations which were in force at the time they commenced their medical studies: Provided that any student who began

¹ The words in italics are taken from Ordinance No. 54, Sections III. and IV., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

² For Table of Fees and Dates of Examination, see page 215.

his medical studies before 1st January, 1892, shall be entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before¹ or after that date.

PROFESSIONAL EXAMINATION FOR THE DEGREE OF DOCTOR OF MEDICINE.

- XXI. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.
2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such of its special departments as the Senatus, with the approval of the University Court, by Regulations framed from time to time, shall determine; and he may present himself for examination in Clinical Medicine at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Medicine for the Degree of Doctor of Medicine shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable, upon at least three Medical cases. In the selection of the cases, special regard shall be given to the opportunities they afford for testing the candidate, not only in the ordinary methods of clinical investigation, but also in the more advanced methods requiring practical knowledge in the applications of the ophthalmoscope and laryngoscope, in the chemical and microscopical examination of excreta, the quantitative determination and microscopic characters of the chief constituents of blood possessing clinical importance, the recording by instruments of the condition of the circulation, the applications of electricity, etc.

Provided always that one of the cases on which a candidate is examined may, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Diseases of Women, Diseases of Children, Mental Diseases, Zymotic Diseases, Diseases of the Eye, Diseases of the Throat, Diseases of the Ear, Diseases of the Skin. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

¹ These regulations may be found at pp. 188—192 of the *University Calendar* for session 1895-96, and in the *Calendars* for preceding sessions.

The examinations for M.D. will be held at a convenient time before the Christmas Holidays of each Session. Candidates must enter their names and lodge their Theses with the Assistant Clerk (Matriculation Office) on or before 1st October.

3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects which are exclusively Surgical; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself,¹ shall be lodged with the Dean of the Faculty of Medicine (at the Matriculation Office) on or before a date to be fixed by the Senatus (1st October).
4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to the examination in Clinical Medicine at any period of examination after he has received such degrees; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively surgical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

*Bachelors of Medicine and Masters of Surgery of the University of Glasgow, who have graduated under the regulations in force before the fifth day of August, 1892, may proceed to the Degree of Doctor of Medicine under the provisions of this section, in the same manner as if they held the Degree of Bachelor of Surgery.*²

PROFESSIONAL EXAMINATION FOR DEGREE OF MASTER OF SURGERY.

- XXII. 1. Subject to the conditions hereinafter specified the Degree of Master of Surgery shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged, subsequently to his having received the

¹ The Faculty of Medicine give notice that no Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited: mere compilations will in no case be accepted.

² Taken from Ordinance No. 54, Section VI., which was issued by the Universities Commissioners on 18th July, 1894, and came into operation on 11th May, 1895, having on that date been approved by Her Majesty in Council.

Degrees of Bachelor of Medicine and Bachelor of Surgery, for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in practice other than practice restricted to Medicine.

2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy, Operations upon the dead body, and Clinical Surgery, and in such of the special departments of Clinical Surgery as the Senatus, with the approval of the University Court, by Regulations framed from time to time, may determine; and he may present himself for examination in these subjects at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this subsection the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Surgery for the Degree of Master of Surgery shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable on at least three Surgical cases.

Provided that one of the three Surgical cases on which a candidate is examined shall, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Surgical Diseases of Women, Diseases of the Throat, Diseases of the Eye, Diseases of the Ear. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

3. Each candidate for the Degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth Examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself,¹ shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.
4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such degrees, on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to examination in the subjects specified in Sub-section 2 of this section, at any period of examination after he has received such degrees; but the Degree of Master of Surgery shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been

¹ See footnote on previous page.

engaged for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively medical, and unless his Thesis, in the judgment of the Faculty of Medicine, is of exceptional merit.

FEES.

XXIII. The fee to be paid for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall be twenty-two guineas, and the proportion of this sum to be paid by a candidate at each division of the examination shall be regulated from time to time by the University Court. The fee to be paid for the Degree of Doctor of Medicine shall be ten guineas, exclusive of any stamp duty which for the time may be exigible. The fee to be paid for the Degree of Master of Surgery shall be ten guineas.

EXAMINERS.

XXIV. The Examiners for graduation in Medicine in the University of Glasgow shall be the Professors in that University, together with such Lecturers in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary: Provided that the Court shall make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. The examinations shall be conducted in writing and orally and also clinically, when the nature of the subject admits, under regulations framed by the Senatus subject to the approval of the University Court.

DISTINCTIONS ATTAINABLE BY STUDENTS AND GRADUATES OF MEDICINE.

Candidates who have shown special merit in any subject or subjects at any of the Professional Examinations will be announced as having passed in such subject or subjects "with distinction."

Candidates who have shown special merit as indicated by the aggregate results of the four Professional Examinations will be announced, at the time of Graduation, as having obtained Commendation or Honours, according to the degree of excellence.

In connection with the Higher Degrees in Medicine and Surgery two grades of distinction are also awarded, viz., Commendation and Honours. The Bellahouston Trustees have announced their intention of enabling the University to award three Gold Medals yearly to those who having gained Honours shall be pronounced by the Senate on the Report of the Faculty of Medicine worthy of this highest distinction for the excellence of their Theses.

GRADUATION.

The terms for conferring Medical and Surgical Degrees in session 1899-1900 are 2nd November, 1899; 1st February, 1900; 17th April, 1900; and 19th July, 1900.

Candidates proceeding to graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict., ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of graduation.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath¹ formerly required to be taken and subscribed by every candidate on graduation :—

I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge.

REGISTRATION OF MEDICAL PRACTITIONERS.

Graduates should register as soon as possible with the Branch Registrar for Scotland, at 48 George Square, Edinburgh. Fee £5. Additional qualifications, 5s. each. Forms of application may be had from the Assistant-Clerk (Matriculation Office).

¹ *The Oath was in these words:—*Testor Deum omnipotentem me hoc Iusjurandum pro virili servaturum; Victus rationem aegris commodam et salutarem prescripturum; nullius intercessione nec sponte noxium pharmacum cuiquam propinaturum; sed sanete et caste vitam artemque meam instituturum; In quacunque domos intravero ad aegrotantium duntaxat salutem ingressurum et ab omni injuria inferenda procul futurum; Quaecunque inter curandum videro audiverove siquidem ea efferre non expediat silentio suppressurum.

TABLE OF EXAMINATIONS FOR DEGREES IN MEDICINE TO BE HELD DURING SESSION 1899-1900.

Fees.	Names to be given in and Fees paid to Assistant-Clerk ¹ (Matreregulation Office). Date. ²	Dates of Written Examinations and Hours at which the different Papers will be set. Printed Schedules with detailed instructions for filling up may be obtained from the Assistant-Clerk ¹ (Matreregulation Office). The Professional Oral Examinations follow immediately after the Written.
Under the Old Regulations the Fee for each Professional Examination is £5 5s.; under the New, the Fees are—First, £6 6s.; Second, £6 6s.; Third, £5 5s.; Fourth, £5 5s.	14th September, 1899,	<p>{ Mon., 2nd Oct., 1899, Zoology - - - 10—11.30 a.m. Botany - - - 12.30—2 p.m. Chemistry 3—4.30 p.m.</p> <p>{ Mon., 2nd " " Materia Medica - 10—12 noon.</p> <p>{ Tues., 3rd " " Physics - - - 10—12 noon Anatomy - 10—12 noon. Physiology 12.30—2.30 p.</p> <p>{ Wed., 4th " " Med. Jurisp. (N.R.) 10—1 p.m. Pathology - 3—5 p.m.</p>
	8th March, 1900,	<p>{ Mon., 26th Mar., 1900, Zoology - - - 10—11.30 a.m. Botany - - - 12.30—2 p.m. Chemistry 3—4.30 p.m.</p> <p>{ Mon., 26th " " Materia Medica - 10—12 noon.</p> <p>{ Tues., 27th " " Physics - - - 10—12 noon Anatomy - 10—12 noon. Physiology 12.30—2.30 p.</p> <p>{ Wed., 28th " " Med. Jurisp. (N.R.) 10—1 p.m. Pathology - 3—5 p.m.</p>
	15th May, 1900,	<p>{ Mon., 4th June, " Practice of Medicine 10—12 noon. Surgery - 2—4 p.m.</p> <p>{ Tues., 5th " " Midwifery - - 10—12 noon.</p> <p>{ Tues., 5th " " (Clinical Examinations begin).</p> <p>{ Wed., 6th " " Medical Jurisp. (O.R.) 10—12 noon</p> <p>{ Thurs., 7th " " Pathology (O.R.) - 10—12 noon.</p>

¹ For Women Students, Miss Galloway, Queen Margaret College.

² When names are not given in and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary Certificates, etc., lodged. Every candidate must matriculate at the University for the session in which he enters for professional examination or for graduation.

5.—GRADUATION IN LAW.

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification, except as stated on page 106.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case; and by Act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal, and a similar provision is contained in the Act of Sederunt of 18th March, 1893.

Degree of LL.B.

The following are the provisions of Ordinance No. 39, General No. 11, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894, began their course of study with a view to graduation in Law:—

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a graduate in Arts of one of the Universities of the United Kingdom; or of any Foreign or Colonial University specially recognized for the purpose by the University Court.

II. The course of study in Law for the Degree of Bachelor of Laws shall include the following subjects:—

- (1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.
- (2) The Law of Nations or Public International Law, during a course of not less than forty lectures.
- (3) Civil Law during a course of not less than eighty lectures.
- (4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.
- (5) Constitutional Law and History, during a course of not less than eighty lectures.
- (6) Conveyancing, during a course of not less than eighty lectures; or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.
- (7) Any two of the following subjects, namely:—International Private Law, Political Economy, Administrative Law, and Forensic Medicine; in each case during a course of not less than forty lectures.

III. (1) The course of study necessary for the Degree of Bachelor of Laws shall extend over three academical years, one of which at least must be spent in the University in which the candidate intends to graduate, the other two may have been spent in any other University or School of Law specially recognised by the University Court.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of these subjects. Before presenting themselves in any subject the candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the Examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

V. Every candidate for the Degree of Bachelor of Laws shall be examined both orally and in writing on each of the subjects in the course of study above prescribed in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of or Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as Bachelor of Laws in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Laws without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council.

Degree of B.L.

The following are the provisions of Ordinance No. 40, General No. 12, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894, began their course of study with a view to graduation in Law.

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law (B.L.) unless he be a graduate in Arts of one of the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognised for the purpose by the University Court; or until he shall have passed—

A. The Preliminary Examination in the Faculty of Arts, or its equivalent, as specified in Ordinance No. 11 (General No. 6.—Regulations for Degrees in Arts); and

B. An Examination in one of the Scottish Universities, to be conducted by the Examiners in Arts, in the following subjects, on the standard of examination for the Ordinary Degree of Master of Arts:—

(1) Logic and Psychology; or, in the option of the candidate, Moral Philosophy.

(2) Latin.

(3) One additional Arts subject, not being one of those which belong also to the Faculty of Law.

And he must have studied at least one of these subjects in a full course in a Scottish University, or an equivalent course in another University approved by the University Court.

II. The course of study in Law necessary for the Degree of Bachelor of Law shall include the following subjects:—

1. Civil Law, during a course of not less than eighty lectures; or a half course in Civil Law where in any University a full course is not available: Provided that in the latter case, candidates who are not already graduates in Arts shall be required to take in addition a course in such subject in Arts as may be sanctioned by the Senatus Academicus, or a half course in one or other of the following branches of Law:—

(a) Jurisprudence, General or Comparative.

(b) The Law of Nations, or Public International Law.

(c) Constitutional Law and History.

(d) International Private Law.

(e) Mercantile Law.

(f) Administrative Law.

2. Law of Scotland, during a course of not less than eighty lectures.

3. Conveyancing, during a course of not less than eighty lectures.

4. Forensic Medicine during a course of not less than forty meetings of the class; or, in the option of the candidate, a half course in one of the branches of Law specified in Sub-section 1 of this section if not already taken.

III. (1) The course of study in Law necessary for the Degree of Bachelor of Law shall extend over two academical years.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The candidate may prosecute his studies during the prescribed two years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognised by the University Court; but one at least of these years must

have been spent, and all the examinations in the subjects mentioned in the preceding section must have been passed, at the University in which he intends to graduate.

IV. The candidate for the Degree of Bachelor of Law must undergo examination and pass in the four or more subjects selected by him; but he may present himself for examination in one subject or group of subjects at a time, provided that he has completed the course of study for such subject or group of subjects, and provided also that in that case a higher standard of proficiency shall be exacted.

V. Every candidate for the Degree of Bachelor of Law shall be examined, both orally and in writing, on each of the subjects in the course of study above prescribed, in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Law a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of and Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examinations shall be fixed from time to time by the *Senatus Academicus*.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as a Bachelor of Law in any Scottish University under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Law without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council.

REGULATIONS APPLICABLE TO ALL WHO BEGAN THEIR COURSE WITH A VIEW TO GRADUATION IN LAW BEFORE 1ST OCTOBER, 1894.

I. No one shall hereafter be admitted as a candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a graduate in Arts of a recognized University.

II. The course of study in Law necessary for the Degree of Bachelor of Laws shall extend over three academical years, and shall include attendance on a distinct course in each of the six following departments, viz. :—

1. CIVIL LAW, - - - - -	} During courses of not less than eighty lectures each.
2. LAW OF SCOTLAND, - - - - -	
3. CONVEYANCING, - - - - -	
4. PUBLIC LAW, - - - - -	} During courses of not less than forty lectures each.
5. CONSTITUTIONAL LAW AND HISTORY, - - - - -	
6. MEDICAL JURISPRUDENCE, - - - - -	

III. No one shall be admitted as a candidate for this degree in any University unless two at least of the three academical years of his course of study in Law shall have been in such University.

IV. Candidates for the Degree of Bachelor of Laws shall be examined, both in writing and *viva voce*, on each of the six departments of Law above specified.

V. The Examiners, in judging of the qualifications of candidates, shall have special regard to their acquirements in the two departments of Public Law and Constitutional Law and History.

IX. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law (B.L.) in the University of Glasgow unless he be a Graduate in Arts, qualified as prescribed in Section I. (*supra*), or unless he shall have passed a satisfactory examination in Latin, and in any three of the following subjects (Logic or Mathematics being always one of the three), viz. :—(a) Greek, with the alternative of French or German, (b) Logic, (c) Moral Philosophy, (d) Mathematics, (e) Natural Philosophy, and (f) English Literature; and further, shall have studied, during at least two academical years, two or more of the above branches, in one or more of the Universities mentioned in Section I. The examinations shall be conducted by Examiners in Arts, together with some of the Law Examiners. The following are the subjects of Preliminary Examination under this section :—

ARTS SUBJECTS.—The examination in the Arts subjects under Section IX. will be the same as that for the Degree of M.A.

FRENCH.—*Montesquieu's* *Esprit des Lois*, Books i. to v.; *Voltaire's* Charles XII.; *Molière's* *Le Bourgeois Gentilhomme*; *Victor Hugo's* First Division of Selections (*Poésie*) contained in *L'Œuvre Complète de Victor Hugo (Extraits)*, Paris, Hetzel-Quantin, 1885. Some knowledge of the matter of the books prescribed as well as of their text is required. A passage from a work not prescribed may also be set. Moderate proficiency in French Prose Composition is required. Questions on French Grammar, Philology, and History will also be set. For these subjects reference may be made to *Saintsbury's* *Primer of French Literature*, *Brachet's* *Historical French Grammar*, or *Clapin's* *Primer of French Philology*, and *Charlotte Yonge's* *Primer of French History*.

GERMAN.—*von Ihering*, Der Kampf um's Recht ; *Schiller*, Die Belagerung von Antwerpen ; *Lessing*, Minna von Barnhelm ; *Goethe*, Hermann und Dorothea. Translation, Composition, and Grammatical and Historical Knowledge will be required, as in French. Reference may be made to *Gostwick and Harrison's* German Literature, or *Selss'* Outline of the Literature of Germany ; and *Sime's* History of Germany (Macmillan's Hist. Course for Schools).

X. The course of study in Law necessary for the Degree of Bachelor of Law in the University of Glasgow shall extend over at least two academical years, and shall include attendance on a distinct course, as specified in Section II., in each of the three departments of Civil Law, Law of Scotland, and Conveyancing, and in any one of the other three departments of Law mentioned in that section : Provided always that in lieu of Civil Law, or one of the last-mentioned three departments of Law, attendance on a distinct course of Moral Philosophy shall be admitted as sufficient, or in the event of Moral Philosophy having been selected by a candidate as one of the three optional subjects of Preliminary Examination, then attendance on a distinct course of Political Economy shall be admitted in lieu of Civil Law or one of the said other three departments of Law. No one shall be admitted to examination as a candidate for the said degree unless two academical years of his course of study in Law shall have been in the University of Glasgow. The candidates shall be examined in each of the departments in which they shall have given attendance as herein required.

XIII. Any candidate who, before the approval of the present alteration by Her Majesty in Council, may, with a view to graduation in the University, have passed an examination in any of the subjects hereby required for the Degree of B.L., shall be entitled to reckon such examination as an examination in the same subject or subjects for the purposes of the said degree.

SUBJECTS OF EXAMINATION.

The examinations for LL.B. and B.L. in session 1899-1900 will embrace the following books and subjects, viz. :—

In Civil Law.—Institutes of Justinian (Ed. Moyle or Sandars) and the Class Lectures ; also Dig., Lib. XVIII., Tit. I.—translated and annotated by Mackintosh—Roman Law of Sale.

In the Law of Scotland.—In addition to the Class Lectures, the books recommended are Bell's Principles of the Law of Scotland, and Erskine's Principles of the Law of Scotland. In Criminal Law, Macdonald's Criminal Law and Erskine's Principles. Recent editions of the works mentioned should be used.

In Conveyancing.—In addition to the Class Lectures, the books recommended are Duff's Feudal Rights, with Supplement ;

Lectures on Conveyancing, by Menzies ; Lectures on Conveyancing, by A. M. Bell ; and Craigie's Statutes.

In Mercantile Law.—Bell's Commentaries by M'Laren, Vol. I., pages 546 to 678 ; Carver on Carriage by Sea ; Thorburn's Bills of Exchange Act, 1882.

In Jurisprudence, General or Comparative.—Holland's Jurisprudence (5th or 6th edition) ; Maine's Ancient Law ; Miller's Philosophy of Law. Reference may also be made to Hearn's The Aryan Household, and Sidgwick's Elements of Politics.

In the Law of Nations, or Public International Law.—Hall's International Law. Candidates are expected to show a general acquaintance with the history of Modern Europe. Pitt Cobbett's Leading Cases, and Tudor's Leading Cases in Mercantile and Maritime Law will be found useful for reference.

NOTE.—Candidates under the old regulations for LL.B. are required to sit also at the papers on Jurisprudence and International Private Law.

In International Private Law.—Rattigan's Private International Law, with the Scots cases referred to in the Class Lectures.

In Constitutional Law and History.—(1) The Outlines of English Constitutional History ; (2) Existing Constitutional Law. Authorities recommended : Taswell-Langmead's English Constitutional History ; Stubbs' Select Charters (Introductory Sketch only) ; Anson's Law and Custom of the Constitution, Vol. I. ; Dicey's Law of the Constitution ; Leading Cases in Constitutional Law, by Thomas.

NOTE.—Candidates for B.L. will only be examined on the half course of lectures they have attended, and on Taswell-Langmead's English Constitutional History.

In Forensic Medicine.—Signs of Death with relation to Crime ; Proximate Causes of Death ; Medico-legal Forms of Death ; Identity ; Survivorship ; Wounds ; Blood-stains and their Detection ; Insurance ; Sexual Crimes :—Rape and Criminal Abortion ; Pregnancy in its Medico-legal aspects ; Infanticide and Concealment of Pregnancy ; Divorce in its Medico-legal relations ; Legitimacy and Paternity ; Evidence of Poisoning ; Poisoning by Prussic Acid, Arsenic, and Opium ; Alcoholism in its Medico-legal aspects ; Insanity. (*Text-books*, Principles of Forensic Medicine : Guy and Ferrier ; or Manual of Forensic Medicine : Dixon Mann.)

In Political Economy and other Arts Subjects.—The subjects of examination for the Degree of M.A.

No candidate for the Degree of B.L. is admitted to an examination in Law subjects until he has passed in all the subjects of the preliminary examinations, and not fewer than two subjects in Law can be taken up at one examination, except in case of candidates for the Degree of B.L. under the new regulations.

TABLE OF EXAMINATIONS FOR DEGREES IN LAW, TO BE HELD DURING SESSION 1899-1900.

Fec. ¹	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date. ²	Subjects of Examination.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.		
			October, 1899.		March, 1900.
£1 1s. on each entry for LL.B. £5 5s., B.L. £3 3s. ance, if any, before Graduation, Total Fees —	20th September or 6th March,	Jurisprudence, -	Mon., 2nd Oct.,	9—12 noon.	Mon., 26th Mar., 9—12 noon.
		Private Internat. Law, -	" "	2—5 p.m.	" " 2—5 p.m.
		Scots Law, -	Tues., 3rd	9—12 noon.	Tues., 27th " 9—12 noon.
		Public Internat. Law, -	" "	2—5 p.m.	" " 2—5 p.m.
		Civil Law, -	Wed., 4th	9—12 noon.	Wed., 28th " 9—12 noon.
		Constitut. Law & Hist., -	" "	2—5 p.m.	" " 2—5 p.m.
		Political Economy, -	" "	6—9 p.m.	" " 6—9 p.m.
		Conveyancing, -	Thurs., 5th	9—12 noon.	Thurs., 29th " 9—12 noon.
		Forensic Medicine, -	" "	2—5 p.m.	" " 2—5 p.m.
		Mercantile Law, -	Friday, 6th	9—12 noon.	Friday, 30th " 9—12 noon.

For Dates of the Preliminary Examination and of the Examinations in Arts subjects necessary for B.L., see pp. 161 and 181.

¹ Under the new regulations the fee for LL.B. is £6 6s.; for B.L., £5 5s.

² When names are not given in and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

6.—GRADUATION IN DIVINITY.

Degree of Bachelor of Divinity.

In Ordinance No. 63 the Universities Commission laid down the following regulations for this degree :—

I. No one shall be admitted to examination¹ as a candidate for the Degree of Bachelor of Divinity (B.D.) in any University unless he be (1) a graduate in Arts of that University, and have taken a complete Theological Course in a Scottish University or Universities, or in an institution or institutions specially recognised for the purpose of this ordinance by the University Court, or partly in a Scottish University or Universities and partly in such institution or institutions;² or (2) a graduate in Arts of any Scottish University or other University specially recognised as aforesaid, and have completed his Theological Course, of which not less than two years' attendance shall have been given in the University in which he presents himself for examination.

II. The examination shall in all cases be conducted at the seat of the University granting the degree, and the Examiners shall be the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.¹

III. Every student who at the time when this ordinance shall come into operation shall have completed a part of his Theological Course with a view to graduation as Bachelor of Divinity in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Divinity without complying with the provisions of this ordinance.

IV. The Degree of Bachelor of Divinity shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

This degree is conferred on such qualified candidates as have satisfied the Examiners of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.

II. Divinity, Church History, and Biblical Criticism.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their course in Arts, may present themselves for examination in the First Department. Candidates are not admitted to examination in their Second Department *until they have completed their Theological Course*.

¹ Ordinance No. 154 gives the Senatus Academicus power to admit candidates to examination in not more than three of the subjects, after the completion of the second session of attendance on their Theological course.

² The University Court has recognised *pro tanto* every Theological College in the United Kingdom having a distinct staff of teachers for the separate subjects, in so far as the Theological course is subsequent to the Arts course.

The scheme of examination for session 1899-1900 is as follows :—

I. FIRST DEPARTMENT—

- (a) *Hebrew*.—(1) Isaiah xl.-lxvi.; (2) Psalms cvii.-cl.; (3) Portions of unpunctuated Hebrew to be punctuated and translated; (4) Translations from English into Hebrew.

Books that may be used :

The Commentaries on Isaiah by Delitzsch, Cheyne, von Orelli, Skinner (Cambridge Bible), and G. A. Smith; The Commentaries on the Psalms by Delitzsch, Perowne and Cheyne; the relative portions of Driver's Introduction (in which full references to Literature will be found); Driver's Isaiah, his Life and Times (Men of the Bible Series); Cheyne's Origin of the Psalter; Müller's Outlines of Hebrew Syntax; Davidson's Hebrew Syntax; Robertson's Hebrew Exercises.

- (b) *New Testament Exegesis*.—(1) Introduction to the Gospel according to Mark. (2) Exegesis of Mark i. 1-viii. 26, with critical comparison of the parallel passages in Matthew and Luke; (3) Exegesis of the Epistles to the Thessalonians.

Books which may be consulted :

(1) and (2) The relative Commentaries of Meyer, De Wette, Alford, or Swete; Bleek, Synoptische Erklärung der drei ersten Evangelien; (3) The Commentaries of Meyer, Alford, Ellicott.

- (c) *Apologetics*.—(1) Theism and Antitheistic Theories (limited to Atheism, Secularism, and Materialism); (2) Philosophy of Religion (as in Caird's Introduction to the Philosophy of Religion), and History of the Religion of Israel in comparison with other Religions; (3) Origen's Apology and Butler's Analogy.

Books which may be consulted :

(1) Flint's Theism and Antitheistic Theories; Bruce's Apologetics; Professor Campbell Fraser's Philosophy of Theism; Fisher's Grounds of Theistic and Christian Belief; (2) Pfleiderer's Philosophy of Religion, Vol. I., and the works on the Theology of the O.T., by Oehler, Schulz, and Dillmann; (3) Patrick's Apology of Origen, and Gladstone's Studies subsidiary to Butler's Works.

II. SECOND DEPARTMENT—

- (a) *Divinity*.—(1) The Trinity and the Incarnation; (2) The Atonement; (3) Theology of the Epistle to the Hebrews.

Books which may be consulted :

The Systematic Theologies of Hodge, Oosterzee, Martensen and Dorner ; Orr's Christian View of God and the World as centring in the Incarnation ; the relevant historical sketches of the Doctrines in Schaff's Church History, Harnack's History of Dogma, and Dorner's Person of Christ ; Ritschl's History of the Doctrine of Justification and Atonement ; Crawford and Dale on the Atonement ; the Theology of the Epistle to the Hebrews, as discussed by Bruce, Milligan, Weiss, and Beyschlag.

(b) *Church History*.—The Ante-Nicene Period.

The following are among the books which may be consulted : The Acts of the Apostles ; Professor Ramsay's St. Paul the Traveller and Roman Citizen ; Bishop Lightfoot's Apostolic Fathers—the historical parts ; Archbishop Benson's St. Cyprian ; Eusebius' Ecclesiastical History (M'Giffert's translation) ; Kurtz, Church History, Vol. I. ; Gibbon's Decline and Fall, Chapters xv. and xvi.

(c) *Biblical Criticism*.—(1) Textual Criticism. (2) Hermeneutics.

Books which may be consulted :

(1) Davidson, Biblical Criticism ; Tregelles, Treatise in Horne's Introduction, Vol. IV. ; Scrivener, Introduction to the Criticism of the New Testament (fourth edition) ; Westcott and Hort, Prolegomena to the Greek Testament. (2) Davidson, Sacred Hermeneutics (1843), or Treatise on Interpretation in Horne's Introduction, Vol. II. ; Ernesti, Institutio Interpretis ; Immer, Hermeneutik des Neuen Testamentes.

The scheme of examination for session 1900-1901 will be as follows:

I. FIRST DEPARTMENT—

- (a) *Hebrew*.—(1) The Books of Haggai, Zechariah, and Malachi ; (2) Psalms i.-xli. ; (3) Portions of unpunctuated Hebrew to be punctuated and translated ; (4) Translations from English into Hebrew.
- (b) *New Testament Exegesis*.—(1) Introduction to the Acts of the Apostles ; (2) Exegesis of Luke viii. 4-xviii. 14, with critical comparison of the parallel passages in Matthew and Mark ; (3) Exegesis of the Epistles to the Corinthians.
- (c) *Apologetics*.—(1) Philosophy of Religion ; (2) Pantheism, Positivism, and Agnosticism ; (3) Jesus Christ and Christianity as in the Gospels.

II. SECOND DEPARTMENT—

- (a) *Divinity*.—(1) The Trinity and the Incarnation ; (2) The Doctrine of Sin ; (3) The Pauline Theology or Christian Ethics.
- (b) *Church History*.—From the Conversion of Constantine to the close of the Fourth General Council.
- (c) *Biblical Criticism*.—(1) Textual Criticism ; (2) Hermeneutics.

TABLE OF EXAMINATIONS FOR DEGREES IN DIVINITY, FOR BLACK THEOLOGICAL FELLOWSHIP, FOR FINDLATER SCHOLARSHIP, AND FOR JAMIESON PRIZE, TO BE HELD DURING SESSION 1899-1900.

Department.	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date. ¹	Fee.	Dates of Written Examinations and Hours at which the different Papers will be set.
First.	18th October, 1899.	£2 12s. 6d.	<div> <div> Tues., 24th Oct., 1899. Hebrew, - - - 10—1 p.m. " " Hebrew, - - - 2—5 p.m. </div> Wed., 25th Oct., 1899. Apologetics, - - - 10—1 p.m. " " New Testament Exegesis, 2—5 p.m. </div>
Second.	23rd March, 1900.	£2 12s. 6d.*	<div> Thurs., 29th Mar., 1900. Divinity, - - - 10—1 p.m. " " Textual Criticism, - 2—4 p.m. Frid., 30th Mar., 1900. Church History, - - 10—1 p.m. " " Hermeneutics, - - 2—4 p.m. </div>

¹ Forms of application for examination may be obtained at the Matriculation Office. These forms, when filled up, must be forwarded by the candidates to the Dean of the Faculty of Theology, along with certificates of attendance on the required classes, and, having been certified by him, must then be transmitted to the Assistant-Clerk (Matriculation Office) on or before the date prescribed above. In entering for the Second Department candidates from other schools must produce, in addition to class certificates, evidence that they have completed, or are about to complete, their Theological Course.

7.—HONORARY DEGREES.

The powers of the *Senatus Academicus* to grant Honorary Degrees are regulated by Ordinance No. 41 of the Universities Commission (1889) of date 13th December, 1893, which received the approval of Her Majesty in Council on 28th May, 1894.

Degree of Doctor of Divinity.

The following are the regulations for the Degree of D.D. :—

I. At the commencement of every session, the *Senatus Academicus* in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Divinity, consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and three other Professors to be selected by the *Senatus Academicus* from the other Faculties.

II. It shall be the duty of this committee to select persons to be recommended to the *Senatus Academicus* for the degree; but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present a reasoned report, embodying its recommendations to the *Senatus*.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the *Senatus* may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz. :—

- (a) Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.
- (b) Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.
- (c) Whether, (1) being a Bachelor of Divinity of eight years' standing, he has passed a higher examination in any three of the six subjects embraced in the examination for the Degree of B.D.; or, (2) being a Bachelor of Divinity of fifteen years' standing, he has published a contribution of merit to Theological Literature.

V. No resolution to confer the Degree of Doctor of Divinity shall be moved in the *Senatus* except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

Degree of Doctor of Laws.

The following are the regulations for the Degree of LL.D. :—

I. At the commencement of every session, the *Senatus Academicus* in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Laws, consisting of the Principal and such Professors selected from the various Faculties as the *Senatus Academicus* may determine, provided that the total number of the committee shall not exceed twelve.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus for the degree, but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present to the Senatus a reasoned report embodying its recommendations.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz.:—

- (a) Whether he is an alumnus of this or any other University, and whether he already holds any academical degree.
- (b) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.
- (c) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Laws shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

Academic Dress.

GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by graduates of the University of Glasgow are of black silk or stuff, of similar shape to those appropriated to the corresponding degrees in the other British Universities.¹

The Hoods for the different degrees, as approved by the University Court on 19th May, 1893, are as follows:—

- B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).
- M.A., Black Silk, lined with Red Purple Silk.
- B.Sc., Black Silk, bordered with Scarlet Cloth and lined with Gold Coloured Silk (colour of Whin Blossom—*Ulex Europæa*).
- D.Sc., Scarlet Cloth, lined with Gold Coloured Silk.
- B.L., Black Silk, with an inside border of Venetian Red Silk (colour of Clove Carnations).
- LL.B., Black Silk, bordered with Scarlet Cloth and lined with Venetian Red Silk.
- LL.D., Scarlet Cloth, lined with Venetian Red Silk.

¹ The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

M.B. and C.M., Black Silk, bordered with Scarlet Cloth and lined with Scarlet Silk.

M.D., Scarlet Cloth, lined with Scarlet Silk.

B.D., Black Silk, bordered with Scarlet Cloth and lined with a light Cherry Silk.

D.D., Scarlet Cloth, lined with White Silk.

UNDER-GRADUATES.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII., of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns ; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to academic dress ; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the academical dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper academic dress for students in Arts is the red gown.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown.

CEREMONY OF GRADUATION.

The following are the regulations adopted by the Senate :—

All degrees honorary or gained by examination, shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for graduation are required to appear in black gowns with the hoods appropriate to their degrees ; those who are already graduates, in the costume proper to their previous degree.

IX.—BURSARIES, SCHOLARSHIPS, *Etc.*, PRIZES.

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, *etc.*, by a "preference" the Senate understand, in every instance, a preference *cæteris paribus*.

The following is the general ordinance issued by the Universities Commission with regard to Bursaries, Scholarships, and Fellowships, which have taken effect prior to the 30th day of August, 1864 :—

ORDINANCE No. 57 (GENERAL, No. 19.—REGULATIONS AS TO BURSARIES, SCHOLARSHIPS, AND FELLOWSHIPS).

GENERAL.

I. For the purposes of this ordinance, bursaries in the Faculty of Arts (hereinafter referred to as bursaries in Arts) shall be deemed to be the bursaries now attached to the said Faculty by Deed of Foundation or by custom.

II. Bursaries in Arts heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study approved by the Senatus Academicus in subjects included in the curriculum for Degrees in Arts or in Pure Science.

III. All bursars in Arts, subject to the provision as to the fourth year of tenure contained in the immediately preceding section, shall attend in each year at least two classes qualifying for graduation in Arts, and shall duly perform the work of these classes: Provided (1) that, for the purposes of this section, the classes known as Middle Classes, so long as the same exist, may be attended in place of classes qualifying for graduation; and (2) that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to permit such bursars as they shall from time to time select to attend classes qualifying for graduation in Pure Science in place of classes qualifying for graduation in Arts.

IV. It shall be in the power of the Senatus Academicus to suspend or deprive a bursar, scholar, or fellow on the ground of misconduct, or, if it think fit, on the ground of his failure to obtain class certificates, or to produce such other evidence as may be required that he is prosecuting his studies in a manner satisfactory to the Senatus Academicus.

V. Bursaries in Divinity heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the

fourth year of tenure if they shall engage in a course of study in Divinity approved by the *Senatus Academicus*.

VI. In the case of a bursary, scholarship, or fellowship, not in the gift of a patron, becoming vacant by forfeiture or otherwise before the expiry of the period of tenure, it shall be in the power of the *Senatus Academicus*, with the approval of the University Court, to determine as to the disposal thereof, or of the income thereof, during the remainder of the said period.

VII. Any bursary tenable in several Faculties successively shall not be attached to any one of such Faculties in any year other than a year in which in ordinary rotation it would have been attached to such Faculty.

VIII. It shall be in the power of the *Senatus Academicus* to require, as a condition of tenure, any holder of a scholarship or fellowship who is a graduate to engage in teaching within the University or to conduct tutorial classes, unless he shall satisfy the *Senatus Academicus* that he is pursuing special higher studies, or that he is engaged in original research.

IX. Each Examiner at competitions for bursaries, scholarships, or fellowships shall receive suitable remuneration, and it shall be in the power of the University Court to charge the funds of bursaries, scholarships, or fellowships with the necessary expenses of examination.

OPEN BURSARIES.

X. (1) The subjects of the examination for open bursaries in Arts of the first year shall be the subjects prescribed for the Preliminary Examination in Arts instituted by Ordinance No. 11 (General, No. 6—Regulations for Degrees in Arts), Section III. The examination shall be taken at the Spring or the Autumn Preliminary Examination, according as the University Court shall determine, and shall be upon the same papers: Provided that the *Senatus Academicus* may, for purposes of competition, subject candidates to any further test that may be deemed necessary.

(2) Candidates for such bursaries who select in the Bursary Competition Examination, Latin, Greek, or Mathematics, shall, for the purposes of the competition, take the papers of the higher standard in those subjects: Provided that nothing herein contained shall prevent a candidate passing the Preliminary Examination if he complies with the provisions of Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), and Ordinance No. 44 (General, No. 16.—Regulations for Degrees in Arts Supplementary to Ordinance No. 11).

(3) No candidate shall, except as hereinafter provided, obtain a bursary in Arts who shall not have passed the Preliminary Examination in Arts: Provided that it shall be in the power of the *Senatus Academicus*, with the approval of the University Court, to admit to a bursary in Arts a candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the

Second Preliminary Examination after the date of his admission as bursar : Provided also that this power shall lapse after the expiry of seven years from the date hereof unless it be renewed by ordinance.

XI. It shall be competent for the *Senatus Academicus*, with the approval of the University Court, from time to time to make regulations as to the conditions under which persons shall be eligible to compete for bursaries of the first year in the Faculties of Arts and Science : Provided always that no student, who has during a winter or summer session attended any class qualifying for graduation in the said Faculties in any Scottish University, shall be eligible to compete for such bursaries.

XII. (1) In determining the marks to be assigned to the several subjects of the Bursary Competition Examination, English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject.

(2) Candidates may select not more than five subjects for examination from the subjects of the Preliminary Examination in Arts, and no candidate shall be credited with marks in any subject in which he has not obtained such proportion of the total number of marks assigned to that subject as the *Senatus Academicus* may from time to time prescribe.

XIII. The *Senatus Academicus*, in determining the results of the Bursary Competition Examination, may award bursaries in Arts of the first year in respect of exceptional distinction in any one branch of study : Provided that this power shall not be exercised with regard to more than two bursaries in any one year.

XIV. Bursaries open for competition to students entering on their first session of attendance in the Faculty of Medicine shall be tenable only by those students who have passed the Preliminary Examination in Medicine, or who have been exempted therefrom in accordance with the provisions of Section VI. of Ordinance No. 46 (St. Andrews, No. 4.—Regulations for Degrees in Medicine), Ordinance No. 14 (Glasgow, No. 1.—Regulations for Degrees in Medicine), Ordinance No. 15 (Aberdeen, No. 1.—Regulations for Degrees in Medicine), or Ordinance No. 16 (Edinburgh, No. 1.—Regulations for Degrees in Medicine), and who have not attended any class qualifying for graduation in Medicine : Provided always that the last-mentioned condition shall not be held to exclude a candidate who may have attended the class of Physies, Chemistry, Botany, or Zoology, otherwise than as part of a graduation course in Medicine.

RESTRICTED AND PREFERENTIAL BURSARIES.

XV. Candidates for bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts prescribed by Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), Section III., and no bursary shall, except as hereinafter provided, be awarded to any candidate who shall not have passed the Preliminary Examination in Arts : Provided that it shall be in the power of the *Senatus Academicus*, with the approval of the University Court, to admit to a bursary in Arts not awarded by open

competition a candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as bursar.

XVI. In the case of a bursary, scholarship, or fellowship in the gift of a patron, including bodies corporate and not corporate, becoming vacant by forfeiture or otherwise during the period of tenure, the *Senatus Academicus* shall forthwith give notice of the vacancy to the patron, who may, within such time as the *Senatus* shall fix, appoint a qualified student to fill the vacancy; and if he fail to do so within such time, the *Senatus Academicus* may select a deserving student to fill the vacancy until the next Preliminary Examination at which bursaries are awarded, when the patron's right to present shall revive.

XVII. On the occurrence of a vacancy in any bursary in the gift of a patron, including bodies corporate and not corporate, at the expiry of the period of tenure, the *Senatus Academicus* shall give notice of such vacancy to the patron of the bursary and of the date fixed for the Preliminary Examination next ensuing at which bursaries are awarded; and the patron may, if he think fit, submit to the *Senatus* the names of two or more candidates eligible for such bursary, who shall undergo an examination to be conducted by the Examiners for open bursaries in the University, and the result of the examination shall be communicated to the patron for his information, who shall thereafter present to the bursary.

XVIII. In the case of a bursary in the gift of a patron, including bodies corporate and not corporate, if no qualified person be presented before the date of the Preliminary Examination intimated in terms of the immediately preceding section, the bursary shall be open to unrestricted competition for that year; and in the event of no qualified person being presented as before provided at the beginning of the next academical year, the *Senatus* may either throw open the bursary to unrestricted competition, or continue the same to the student to whom it had previously been awarded: Provided that this section shall not apply in cases where the patron shall previously satisfy the *Senatus Academicus* that proper arrangements have been made for the selection of a bursar.

MISCELLANEOUS.

XIX. In the case of bursaries designed for poor students, the *Senatus Academicus* shall satisfy itself that the circumstances of candidates are such as to entitle them to the benefit of the endowment, and for this purpose the *Senatus* may require that a declaration be made by a parent or guardian, or by the minister of religion or schoolmaster, of each candidate as the Court shall think fit.

XX. [Preferences and restrictions cancelled. These have been noted under each bursary concerned.]

XXI. Nothing herein contained shall apply to any bursary or endowment granted by any incorporation or society whose funds, capital or revenue, have been and are contributed and paid by the

members of such incorporation or society by way of entry monies or other fixed or stated contributions.

XXII. The Senatus Academicus, with the approval of the University Court, shall prescribe the subjects of examination and the conditions of competition for bursaries, scholarships, or fellowships, in so far as the same are not prescribed by ordinance or by deed of foundation.

XXIII. The provisions of any Ordinance of the Commissioners under the Universities (Scotland) Act, 1858, in so far as inconsistent with the provisions of this ordinance, are hereby repealed.

XXIV. This ordinance shall come into force from and after the 1st day of January, 1895, or as soon thereafter as it may be approved by Her Majesty in Council: Provided that nothing herein contained shall extend to, or affect the interests of, any person holding a bursary, scholarship, or fellowship at the date of its coming into effect. [Approved on 11th May, 1895.]

BURSARIES FOR WOMEN.

On 10th March, 1898, the University Court, in virtue of the power conferred by Ordinance No. 58, Section 1., resolved to appropriate to competition, without restriction as to sex, all the open bursaries tenable in Arts, Science, or Medicine, which have taken effect prior to 30th August, 1864. To a number of other Bursaries either men or women may be appointed. In the following lists of Bursaries arranged according to Faculties, *italics* are used in printing the names of those Bursaries for which both men and women are eligible.

A.—BURSARIES ARRANGED ACCORDING TO FACULTIES.

BURSARIES IN THE FACULTY OF THEOLOGY.

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, John, - - - - -	3	4	£17
Black, - - - - -	2	3	£42
Boyd and Sanders, - - - - -	1	3	£13 16/8
Boyd and Wilson, - - - - -	1	3	£24 6/8
Brown or Ettles, - - - - -	2	3	£25
Dundonald, - - - - -	6	3	£41 2 6
Gilhagie and Struthers, - - - - -	1	3	£19 12/8
Hamilton, - - - - -	3	3	£25
Hastie, - - - - -	2	3	£25
Logan, - - - - -	1	3	£16
Lorimer, - - - - -	4	3	£25 and £19
Lumsden, - - - - -	1	4	£15
Macfarlane, James, - - - - -	1	3	£23

BURSARIES IN THE FACULTY OF THEOLOGY—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Marshall, - - - - -	1	4	£17
Morgan, - - - - -	8	1	£20
Muir, - - - - -	1	3	£32
Muir Divinity, - - - - -	2	2	£25
Notman, - - - - -	1	3	£18
Ross, John, jun., - - - - -	1	3	£30
King William's, - - - - -	2	3	£20

BURSARIES IN THE FACULTY OF LAW.

Macfarlane, Robert, - - - - -	—	—	—
Merchants' House, - - - - -	1	3	£25
Walkinshaw-Young, - - - - -	1	2	£18
Major Young's Fund, - - - - -	2	6 and 2	£22

BURSARIES IN THE FACULTY OF MEDICINE.

Arthur, ¹ - - - - -	1	3	£20
Brisbane, - - - - -	1	4	£42
Davidson, - - - - -	1	3	£32
Gibson, Dr. Thomas, ² - - - - -	1	4	£30
Glasgow Highland Society, - - - - -	5	4	£25
Logan, - - - - -	1	4	£16
Lorimer, - - - - -	4	3	£25 and £19
Macarthur, - - - - -	1	2	£20
Macfarlane, John, - - - - -	1	3	£40
Mackintosh, ² - - - - -	1	1	£31
Marshall, - - - - -	1	4	£17
Merchants' House, - - - - -	2	4	£25
Monteith, John, - - - - -	2	2	£21
Paterson, James A., - - - - -	8	4	£30 and £15
Rainy, - - - - -	2	2	£20
Walton, - - - - -	1	4	£34
Weir, Andrew, - - - - -	1	1	£16 10/

BURSARIES IN THE FACULTY OF SCIENCE.

Buchanan Society (Arts or Science), -	16	4	£30
Elder, - - - - -	2	2	£50
Kerr, Malcolm, - - - - -	2	3	£19
M'Ewen, Malcolm (Arts or Science), -	1	4	£16
Metcalfe, - - - - -	4	2	£25
Muir (Civil Engineering), - - - - -	2	1	£12 10/
Pender Memorial, - - - - -	1	1	£40
Shipwrights' Company, - - - - -	1	1	£25
Strang, - - - - -	4	3	£20
Young, George, - - - - -	1	1	£33

¹ Open to women students only.² Both men and women are eligible.

BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend at least two classes each session.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, James, - - - - -	2	4	£11
Adamson, - - - - -	1	3 or 4	£20
Barbour (Kilbarchan), - - - - -	1	3	£18
Biggart Memorial, - - - - -	10	4	£25
Black, - - - - -	2	4	£21
Blackquarry School, - - - - -	1	4	£12
Brand, - - - - -	3	4	£22
Brown, Ebenezer, - - - - -	1	3	£40
Browne (Ayrshire), - - - - -	2	4	£21
Brown-Paton, - - - - -	2	3	£16
Buchanan, - - - - -	2	3	£13
Buchanan Society (Arts or Science), -	16	4	£30
Clark, John (Mile-end), - - - - -	24	4	£30
Cowan, - - - - -	1	3	£26 13/4
Craig, - - - - -	1	4	£25
Craig, Archibald, - - - - -	1	2	£9
Crawford and Brown, ¹ - - - - -	1	4	£19 13/4
Davidson, - - - - -	1	3	£32
Duncan's Bute, - - - - -	2	4	£32
Dundonald, - - - - -	8	4	£40
Ewing, James, - - - - -	4	4	£20
Forfar, ¹ - - - - -	5	4	£36
Foundation, ¹ - - - - -	2	4	£20
Fullarton of Overton, - - - - -	5	2	£22
Gartmore, ¹ - - - - -	1	3	£21
General Council, ¹ - - - - -	4	3 or 2	£20
Glasgow City Educational Endow'm'ts, ¹	20	4 or 2	£25
Grant, George, - - - - -	1	3 or 4	£40
Grant, George, jun., ¹ - - - - -	1	4	£40
Hamilton, - - - - -	3	3	£20
Hamilton Educational Trust, - - - - -	3	3	£15
Hannay, - - - - -	3	3	£15
Hastie, ¹ - - - - -	1	4	£25
Highland Society, Glasgow, - - - - -	15	4	£20
Howison and Gilchrist, - - - - -	1	4	£17
Hutchesons' Educational Trust, - - - - -	20	4	£20
Hyndford and Ross, - - - - -	1	4	£10 16.8
Jaffrey, John Ferguson, - - - - -	1	2	£34
Kerr, Malcolm (Nat. Phil.), - - - - -	1	3	£19
Laing, Alexander, - - - - -	1	3	£20
Laing, James, ¹ - - - - -	8	4	£25
Leadbetter, - - - - -	1	4	£9
Leyden, John, - - - - -	1	3	£13
Lochhead, James, - - - - -	1	3	£16
Lochhead and Mitchell, - - - - -	2	4	£33

¹ Both men and women are eligible.

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Lorimer (4 Phil. 4 Math.), - - -	8	3	£25 and £19
Lusk, - - - - -	1	3	£30
M'Crie, - - - - -	4	4	£25
M'Culloch, - - - - -	1	4	£17
MacDougall, - - - - -	3	3	£33
M'Ewen, Malcolm (Arts or Science), -	1	4	£16
MacGrouther, - - - - -	2	4	£20 and £15
Maitland Club, - - - - -	1	—	—
Marshall Trust, ¹ - - - - -	20	5	£30
Menzies, - - - - -	4	4	£45
Merchants' House, - - - - -	1	4	£25
Monteith, - - - - -	3	3	£14
Morgan, - - - - -	16	1	£20
Muir (Mathematics, Senior), - - -	1	1	£20
Muir (Mathematics, Junior), - - -	1	2	£10
Paterson, James, - - - - -	1	4	£20
Paterson, James A., - - - - -	6	3	£40 and £20
Patrick, - - - - -	3	4	£24
Perthshire Society, - - - - -	1	3	£25
Pollock, - - - - -	3	3	£40
Ramsay-Walker, - - - - -	2	4	£12
Scott, - - - - -	3	4	£25
Stevenson of Dalry, - - - - -	2	4	£32
Stewart, ¹ - - - - -	3	4	£15
Thomson, James (Philosophical), -	1	2	£9
King William's, ¹ - - - - -	2	3	£15

BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.

Ardkinglass, - - - - -	1	6	£9 10/
Buchanan (Bellfield), - - - - -	2	7	£47
Leighton, - - - - -	1	3	£18
Williams, - - - - -	4	3 or 4	£40

BURSARY IN THE FACULTIES OF ARTS OR THEOLOGY.

Lamb, - - - - -	1	—	£12
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BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.

Macdonald, - - - - -	2	4	£15
William Whyte, - - - - -	4	4	£25

BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.

Armagh, ¹ - - - - -	3	3	£45
Bell, - - - - -	—	—	£50
Hutcheson, Thomas, - - - - -	1	4	£11 2/2 ³

¹ Both men and women are eligible.

BURSARIES IN ANY FACULTY.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Ayrshire Society, - - -	4	3	£15
Celtic Society (Campbell), - - -	1	1 or more	£5
Denny, - - -	4	4	£30
Dumfriesshire Society, ¹ - - -	2	4	£15
Ferguson, James, - - -	2	2	£85
Forrest, - - -	5	5 or less	£22
Gibson, John, - - -	2	3	£20
Kintyre (Ker), - - -	1	3	£20
Kintyre (Alexander Love), - - -	1	4	£11
M'Kechie, - - -	2	4	£35
Shearer, - - -	3	3	£30
Smith, - - -	1	4	£18
Stillie, - - -	1	1	£5
Taylor, ¹ - - -	2	4	£7

¹ Both men and women are eligible.

B.—BURSARIES (ALPHABETICALLY ARRANGED).

JAMES ADAM BURSARIES (*Arts*).—These bursaries were founded by the Rev. James Adam, Minister of Cumbernauld, who died in 1830, and were originally three in number. In appointing to one of the bursaries, preference was given to the kindred of the founder, and in appointing to another to students of the name of Adam. By Ordinance No. 80 of the Universities Commission (1889) these restrictions were removed, and the three bursaries were combined into two of equal value. The bursaries are tenable for four years, but if a bursar graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to these bursaries. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbernauld, the exercise of their patronage being regulated by Ordinance No. 57, Sections xv.—xviii. Value, about £11 per annum each.

Bursars—Thomas Pattison, 1896; Hugh R. Wishart, 1896.

JOHN ADAM BURSARIES (*Theology*).—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. The founder gave a preference to his own kindred and to students of the name of Adam or Dollar. By Ordinance No. 57 of the Universities Commission (1889) this preference was cancelled. They are open to competition to students in Theology of the first year; and, after

examination, are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years, subject to the provisions of Ordinance 57, Section v. Value, £17 to each bursar.

Bursars—William L. Levack, 1897; Dugald Carmichael, 1898; Alexander Macdonald, 1898.

ADAMSON BURSARY (*Arts*).—This Bursary was founded by the Rev. David Adamson, minister of Fintry, in 1674, for a student in Philosophy, and was restricted to sons of freemen in one of the seven Incorporate Trades of Stirling. This restriction was removed by Ordinance No. 57 of the Universities Commission (1889). The Bursary is tenable for four years by a student entering the Greek Class, for three years by a student entering the Logic Class; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500.

Bursar—David Forfar, 1897.

ARDKINGLASS BURSARY (*Arts and Theology*).—This Bursary was founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader of Barndennoch, Glencairn, Dumfriesshire, had by his Will set aside for pious uses, and was tenable for eight years—five in Languages and Philosophy, and three in Divinity. It is now regulated by Ordinance No. 87 of the Universities Commission (1889). A bursar may hold the Ardkinglass Bursary for three years in the Faculty of Arts, and for three years in the Faculty of Divinity, and no longer; but a bursar, who at the end of the third year of his tenure has failed to pass all the examinations necessary for graduation in Arts, shall forfeit the Bursary, and in that event it shall be lawful for the patron to nominate a candidate, who shall be a Master of Arts, or shall have passed the examinations necessary for admitting him to that Degree, and shall be entering on his course of study in the Faculty of Divinity; failing such nomination by the patron, the Bursary shall be awarded by the Senate to a candidate qualified as aforesaid, under such conditions as the Senate shall prescribe, but a Bursar thus nominated shall not hold the Bursary for more than three years. In other respects the provisions of Ordinance No. 57 apply to the Ardkinglass Bursary. Patron, Mr. Geo. F. W. Callander of Ardkinglass and Craigforth. Value, £9 10s.

Bursar—Thomas Winning, 1898.

ARMAGH BURSARIES (*Theology, Law, or Medicine*).—Three in number, founded in 1733 by Hugh Boulter, Archbishop of Armagh, who endowed the College with the annual rent of certain lands in

the neighbourhood of Glasgow. By ordinance of the Universities Commission (1858) these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed.

Further regulations were laid down in Ordinance No. 92 of the Universities Commission (1889). The Bursaries are open by competition to students who are presenting themselves for the final examination for the Degree of Master of Arts with Honours in the following rotation: (1) Classics, (2) Mental Philosophy, (3) Mathematics and Natural Philosophy. They are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation. One Bursary (value about £45) will be open to competition in October, the subject of examination being Mental Philosophy.

Bursars—¹ William Morrison (Mental Philosophy), 1896; William Fulton (Classics), 1899.

ARTHUR BURSARY OR SCHOLARSHIP (*Medicine*).—Founded in 1892 by Mrs. Arthur of Barshaw. This Bursary is at present of the annual value of £20. It is open to women students in the Medical School at Queen Margaret College. It is to be awarded by the Trustees to the student who shall take the highest place among the Queen Margaret College candidates at the First Professional Examination held in the University before the commencement of the winter session in which an appointment falls to be made, provided always that a candidate may take part of her examination in the March or April preceding. If two students are of equal merit, the Bursary will be divided between them, and if more than two are equal, a special examination may be held to determine who shall be the recipient. The Bursary is tenable for three years, subject to the condition that the Bursar prosecute her medical studies with the approval of the Trustees.

Bursar or Scholar—Jane S. M'Lauchlan, 1898.

GLASGOW AYRSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Four in number, founded in 1868 and 1879 by the Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £1,501 11s. subscribed by members of the Society, to be devoted to the establishment of bursaries in the University of Glasgow, and invested for that purpose. The bursaries, which are at present £15 per annum each, are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Society, or natives of Ayrshire, or sons of

¹ Vacant through death of bursar.

natives resident in Glasgow, who are in circumstances rendering the aid of a bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. Alexander M'Lennan, 92 St. Vincent Street, Glasgow.

Bursars—James Faulds, 1897; James N. Todd, 1897; Martin Phillips, 1897; Thomas Winning, 1898.

BARBOUR KILBARCHAN BURSARY (*Arts*).—Founded in 1887 by the Executors of Miss Mary Barbour of Plymouth Grove, Manchester, who bequeathed £500 free of legacy duty for the purpose of endowing a scholarship for the Board School of Kilbarchan, Renfrewshire. The bursary is open to students of the first year, and is tenable for three years. Candidates must not exceed the age of eighteen years, must produce a certificate from the Kilbarchan School Board that they have attended three years at the Kilbarchan Village or Town Board School, are of irreproachable character, and have given satisfactory evidence of good natural ability, diligence and proficiency in their studies, and must be examined at the ordinary Bursary Examination. (Vacant.)

BELL BURSARIES.—Mrs. Mary Allan Bell, of Nether Culzeau, Maybole, who died on 7th February, 1899, at Glengae, Dumfries, in her Trust Disposition and Settlement of date 21st October, 1895, directed her Trustees, after the death of her husband, to apply the income of the residue of her estate in perpetuity in providing bursaries of £50 each for necessitous deserving students of Medicine, Law, or Theology in this University. Only those who have gone through the Arts curriculum are to be eligible, with a preference, *ceteris paribus*, first to the name Turnbull, and next to the name Macdowall. The Bursaries are to be awarded by competition, the examination being conducted both orally and in writing by two examiners appointed by the Trustees. Each Bursary is to be tenable for three or four years, as the Trustees may decide.

BIGGART MEMORIAL BURSARIES (*Arts*).—Founded in 1876 by Mr. Thomas Biggart of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Presbyterian Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The bursaries are tenable for four years, and the yearly value of each is £25. The Bursary Fund consisted of the sum of £6,000, and the deed of foundation provided that the surplus revenue, if any, may be applied to prolong the tenure of any of the bursars for a fifth year, or to the granting of additional bursaries on the same conditions as are applicable to the others.

Each bursary is payable by equal moieties on the second day of February and at the close of the winter session; and the bursar, on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the U.P. Synod, to the effect of his being recognized by that Church as an accepted student, pursuing his studies with a view to the ministry therein. (One vacancy.)

Bursars—James Fraser, 1895; Hugh Watt, 1896; Marshall N. Goold, 1896; Thomas K. Wylie, 1897; James H. Steel, 1897; Alexander Borland, 1898.

BLACK BURSARIES (*Arts*).—Founded by Mrs. Janet Black, widow of the Rev. William Black, D.D., Minister of the Barony Parish, Glasgow. Mrs. Black died in 1876, and by her Settlement, made provision, *inter alia*, for the institution of two bursaries in Arts, each of the annual value of £20 or thereby. The bursaries are open to competition to students entering on their first session in the University; and the bursars are required to attend the qualifying courses for a degree in Arts.

Bursars—James M. Clark, 1896; William H. Andrew, 1898.

BLACK BURSARIES (*Theology*).—Founded by Mrs. Janet Black—who died in 1876—in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The bursaries are entrance bursaries, two in number, each of the annual value of £40 or thereby, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any four subjects taken from at least two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

Bursars—¹James D. Mitchell, M.A., 1896; Andrew Macfarlane, M.A., 1897.

BLACKQUARRY SCHOOL BURSARY (*Arts*).—Founded in 1876 by the Trustees of the Blackquarry School, Port-Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under "The Glasgow Police Acts," the Trustees resolved to apply the proceeds, after payment of all claims upon the institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to Students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £12).

Bursar—Dugald Blue, 1897.

¹ Vacant through lapse of time.

BOYD AND SANDERS BURSARY (*Theology*).—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years, each of the value of £5 10s. per annum. The appointment to one of these was vested in the Merchants' House of Glasgow; and the patrons of the other two were the members of the City Council. Preference to burgesses' sons, particularly of the name of Boyd.

The Bursary, value £5 10s., in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value £8 6s. 8d., founded in 1728 by Mr. Robert Sanders of Auldhouse, also in the gift of the Merchants' House, were, by an order obtained under the authority of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. The preference, *cæteris paribus*, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop, was cancelled by Ordinance No. 57 of the Universities Commission (1889). When a vacancy occurs applications are to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September. (Vacant.)

BOYD AND WILSON BURSARY (*Theology*).—By ordinance of the Universities Commissioners of date 17th May, 1862, the two Boyd Bursaries in the gift of the Magistrates and Town Council of Glasgow (see above) were conjoined into one, tenable for three years, the Bursar to be M.A. By an ordinance of the same date the two Bursaries, value £6 13s. 4d. per annum each, which were founded by Mr. Michael Wilson in 1640, and placed under the same patronage, were also conjoined into one, tenable for three years, the holder to be M.A. in regular attendance at the University as a student of Theology. Restrictions as to kindred, etc., were in both cases abolished.

This Boyd Bursary and this Wilson Bursary were, by Ordinance No. 78 of the Universities Commission (1889), conjoined into one Bursary, called the Boyd and Wilson Bursary, value £24 6s. 8d. per annum. The holder must be a Master of Arts of a Scottish University. The Bursary is tenable for three years, provided that the Bursar shall, during that period, give regular attendance as a student of Theology in Glasgow University. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

Bursar.—¹ David F. Liddle, M.A., (1896) 1897.

BRAND BURSARIES (*Arts*).—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees "to pay to the Senatus of the University of Glasgow the sum of £2,000,

¹ Vacant through lapse of time.

the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University who shall be studying with a view to the ministry of the United Presbyterian Church." Mr. Brand died on 3rd July, 1873, but, in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are of the annual value of about £22 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts; the Bursars to graduate as M.A. at the end of their course. One appointment will be made in 1899.

Bursar—William B. Smith, 1897; William Y. Turner, 1898.

BRISBANE BURSARY (*Medicine*).—Founded by Miss Christian Brisbane in 1777, in fulfilment of the intentions of her brother, Dr. John Brisbane of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £42 per annum. The family of Brisbane and the University present alternately. The applicant must be under twenty-two years of age, and must have the Degree of M.A.

The preference formerly given to the kin of the founder was cancelled by Ordinance No. 57 of the Universities Commission (1889).

Bursar—Charles C. Cuthbert, M.A., 1896.

BROWN BURSARY.—See Crawford and Brown, p. 250.

BROWN OR ETTLES BURSARIES (*Theology*).—Two in number, founded in 1867 by Miss Ettles of Inverness, in memory of her brother-in-law, Dr. E. Brown, an alumnus of this University. The Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the examinations required for the ordinary Degree of M.A.; with a preference, *cæteris paribus*, to such as can speak Gaelic. The Bursaries are tenable for three years. (Both vacant.)

EBENEZER BROWN BURSARY (*Arts*).—Founded in 1884 under the Trust Disposition and Settlement of Mr. Ebenezer Brown, export bottler, West Campbell Street, Glasgow. Mr. Brown, who died on 31st July, 1883, bequeathed to the Senate the sum of £1,000, free of legacy duty, for the purpose of founding and maintaining a bursary in the Faculty of Arts, to be granted to the student who shall stand highest in a competitive examination on such subject or subjects in Arts as the Senate may prescribe. The Senate have full power to vary such subject or subjects from year to year, and to lay down such regulations regarding the bursary as they may see fit. The bursary is open to competition to all students entering on their first or second year of attendance, provided that no student in his second year shall be eligible who on entering upon his first year of attend-

ance passed the whole Preliminary Examination. It is tenable for three years.

Bursar—Arthur Shepherd, 1898.

BROWNE (AYRSHIRE) BURSARIES (*Arts*).—Two in number, tenable for four years, and each of the annual value of about £21, founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the county of Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne of Buenos Ayres, mortified to the University of Glasgow the sum of £1,000. The bursaries are awarded by competition. Candidates must be natives of the county of Ayr, or must have been educated for not less than four years in a school within the said county, and must be entering on their first session at the University.

Bursars—¹John Gillies, 1895; William R. Wiseman, 1896.

BROWN-PATON BURSARIES (*Arts*).—Founded in 1891 by Mr. Andrew Brown-Paton, Liverpool, in memory of his father, mother, and three sisters. The bursaries are two in number, and are tenable for three years. They are open for competition to students of the first year, with a preference to natives of the parishes of Loudon or Galston in Ayrshire. Should no candidate from either of these parishes come up to the standard of the Entrance Examination then held in Arts, the bursaries are open to candidates from any part of Ayrshire. Failing qualified candidates from Ayrshire, the bursaries are open to all students of the first year. In case of a vacancy, otherwise than by lapse of time, a student of the same standing is appointed by the Senate by examination or otherwise. Each bursar receives one half of the free proceeds of the capital sum, £1,000, paid over to the University Court by the founder.

Bursars—Colin Paterson, 1897; John Frew, 1898.

BUCHANAN BURSARIES (*Arts*).—Founded by the late Robert Buchanan, LL.D., Ardillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by Codicils to his Will, dated 26th December, 1871, and 26th March, 1872, in which, as a "token or expression of his gratitude and respect to the University of Glasgow, with which, as a student, or Professor, or member of the University Court, he had been connected for the space of fifty years," he bequeathed the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the conditions that may appear to the Senatus best for the interests of the University. The Senate resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session; the Bursars to be appointed by competitive examination among students of the first year. Present value, £13 to each Bursar.

Bursars—²John C. Mann, 1897; Archibald N. Main, 1898.

¹ Vacant through lapse of time. ² Appointed to Bursary of higher value.

BUCHANAN (BELLFIELD) BURSARIES (*Arts and Theology*).—Founded in 1875, in accordance with the Trust Disposition and Deed of Settlement of the late Misses Margaret Jane and Elizabeth Buchanan of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in Reduced 3 per cent. Annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum "or such portion thereof as to the said Principal and Professors may seem proper." The Bursars are appointed by competitive examination among students of the first and second years in Arts. Present value, £47 per annum to each Bursar.

Bursars—Brodie S. Gilfillan, 1896 ; James G. MacDonald, 1897.

BUCHANAN SOCIETY BURSARIES (*Arts or Science*).—These Bursaries, instituted by the Buchanan Society, are of two kinds, Classical and Technical. The former were established in 1877, the latter in 1893. They are open to students of the names of Buchanan, M'Millan, M'Auslan, M'Wattie, and Risk. The Classical Bursaries are each of the annual value of £30, and tenable for four years at any Scottish University. Candidates must be over sixteen and under twenty years of age. The Technical Bursaries are each of the annual value of £35, and tenable for three years at any Scottish University, or at any of the Technical Colleges of Glasgow, Edinburgh, Dundee, or Aberdeen, approved of by the Society. In the event of a Technical Bursar desiring to take the Degree of B.Sc., his tenure may be extended to a fourth year. Both the Classical and the Technical Bursaries are awarded by competition, the subjects of examination being English and any three selected by the candidate out of the following, viz., Latin, Greek, French, German, Mathematics, Science. Candidates for Technical Bursaries must also shew proficiency in Freehand Drawing. Four Bursaries (two Classical and two Technical) will be given in September, 1899, provided a sufficiently high standard is reached by the candidates. Applications should be lodged not later than 15th September with the Secretary, Mr. P. G. Keyden, 186 West George Street, Glasgow, from whom further information may be obtained.

Bursars—Thomas T. Buchanan (Classical), 1896 ; Robert Buchanan (Classical), 1896 ; Joseph F. M'Millan (Classical), 1896 ; Hugh M. Macmillan (Technical), 1896 ; J. M. Macmillan (Classical), 1897 ; George G. Buchanan (Classical), 1897 ; Neil B. Macmillan (Technical), 1897 ; Peter Macmillan (Classical), 1897 ; John M'Millan (Classical), 1898 ; Andrew M'Millan (Classical), 1898 ; John M'Millan (Classical), 1898 ; Angus Buchanan (Classical), 1898.

CELTIC SOCIETY'S CAMPBELL BURSARY (*Any Faculty*).—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable for one or more years by a native, or a son of a native, of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, *ceteris paribus*, to Gaelic-speaking students. Additional Bursaries not exceeding £5 are also granted by the Society, when its funds permit, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. Charles M. Williamson, 194 West George Street, Glasgow, on or before 1st October in each year. Application forms may be obtained from Mr. Williamson.

Bursars—Neil MacLellan (one year), 1898; Roderick MacLeod (one year), 1898.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS (*Arts, etc.*)—(See under "Scholarships.")

JOHN CLARK (MILE-END) BURSARIES (*Arts*).—Founded in 1868, in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, of the firm of John Clark, junior, & Co., thread manufacturers, Mile-End, Glasgow. By a Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons of Protestant parents, entering on their first session in the Faculty of Arts (a preference, *ceteris paribus*, given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow University. On 29th October, 1897, the Trustees resolved that it should not be competent for any one appointed after that date to a John Clark (Mile-End) Bursary to hold any other Bursary or Scholarship concurrently with it. The competition is to be in writing, and the trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate, said residue amounting to upwards of £35,000. Six Bursaries on this foundation will be competed for in October, 1899.

Bursars—¹ Joseph Walker, 1895; ¹ David M. Stewart, 1895; ¹ Alexander D. Lindsay, 1895; ¹ Daniel F. Riddell, 1895; ¹ John Anderson, 1895; ¹ Robert W. Stewart, 1895; Samuel F. H. Mackay, 1896; Daniel O'May, 1896; Robert B. Carslaw, 1896; Peter Ramsay, 1896; John Paul, 1896; Archibald D. Thomson, 1896; David M. Hutchison, 1897; James F. Dyer, 1897; George D. Reith, 1897; Stenart N. Miller, 1897; John J. Gemmell, 1897; William E. MacDonald, 1897; John Bain, 1898; William H. Coats, 1898; Daniel Gillies, 1898; James Cosh, 1898; Robert W. Barr, 1898; James Hunter, 1898.

¹ Vacant through lapse of time.

COWAN BURSARIES (AYR ACADEMY) (*Arts*).—These Bursaries were founded by the late David Cowan, Esq., of Auchendrane, who bequeathed to the Directors of the Ayr Academy the sum of £2,000, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who should have received their previous education, or part of it, at Ayr Academy. These Bursaries are now administered by the "Ayr Educational Trust." Under Scheme 328, Section 26, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 8th February, 1890, the Governors are instructed to apply an annual sum of not less than £80 in establishing Bursaries for University education, to be called the Cowan Bursaries, each of the yearly value of not less than £20 nor more than £30. These Bursaries are awarded by competitive examination among those who have been pupils in the Ayr Academy for at least two years before the date of examination. The Governors have resolved to award them alternately to students of Glasgow and Edinburgh Universities. The Bursaries are tenable for three years, the total value of each being £80, payable by instalments of £30 per annum for the first two years, and £20 for the third year. No student who has gained a Cowan Bursary shall hold along with it any other Bursary or Scholarship which either singly or in combination exceeds the amount of £10 per annum, without the consent of the Governors. On a vacancy, intending candidates must send in their names and addresses to the secretary, Mr. J. G. M'Skimming, 7 Wellington Square, Ayr, before the first day of September; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University.

Bursar—John J. Gemmell, 1897.

CRAIG BURSARY (*Arts*).—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four years. The preference to kindred of Founder, and students of the name of Craig, was cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants' House. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September of the year in which a vacancy occurs.

Bursar—Oliver Dryer, 1898.

ARCHIBALD CRAIG BURSARY (*Arts*).—The Rev. Archibald Craig, some time minister of the Free Church at Dalton, thereafter residing at Eaglesham, who died on 10th March, 1873, by his Will,

dated 4th March, 1873, bequeathed a sum which, with accretions, now amounts to £250, to be devoted to the foundation of a Bursary in the University of Glasgow. The Trustees of the Bursary Fund are—the Minister for the time being of the Parish of Eaglesham, the Minister for the time being of the United Presbyterian Church, Newton-Mearns, and certain other gentlemen. The Bursary was founded in 1884. It is open to competition, at the annual Bursary Examination, to all students entering on the first session of attendance at the University, who are natives of the parishes of Eaglesham or Mearns, or who for two consecutive years have attended school in either of said parishes; is awarded by the Senate in accordance with the result of that examination; and is tenable for the first two years of such student's attendance at the University. The Bursary is payable at the close of the winter session. Should the Bursary be in abeyance during any session or sessions, from failure of students falling under the above description, the accumulation may, in the discretion of the trustees, be applied to the increase of the Bursary in any subsequent session or sessions, or may be added to the capital fund. (Vacant.)

CRAWFURD AND BROWN BURSARY (*Arts*).—The Crawford or Bishop's Bursary was founded by Captain Thomas Crawford of Jordanhill in 1576, and was appropriated to a student in Languages. It was tenable for four years, the value being a chalders of meal. The Patrons were the Principal and the Professors of the University. The foundation was remodelled by ordinance of the Universities Commission, dated 7th June, 1862. The Brown Bursary was founded in 1697 by Colonel Brown of Maryland. It was tenable for four years. The annual value was £5, increased in 1880 to £6 13s. 4d. by an addition from the Students' Bursary Fund. This Bursary, being also in the patronage of the Principal and Professors, was combined with the Crawford Bursary by Ordinance No. 81 of the Universities Commission (1889), the joint-bursary to be called the Crawford and Brown Bursary. The preference as to kindred attaching to the Brown Bursary was abolished. The Crawford and Brown Bursary is tenable for four years, the annual value being £19 13s. 4d. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure, if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary.

Bursar.—Thomas Paterson, 1896.

DAVIDSON BURSARIES (*One in Arts and one in Medicine*).—Two in number, founded in 1881, in terms of the Trust Disposition and Settlement of Mrs. Eliza Davidson, who bequeathed £2,000 for that

purpose, the one bursary being in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson. A preference is given, *ceteris paribus*, to the Founder's relatives, and to young men natives of the parishes of Muirkirk, Dalserf, Lesmahagow, and Loudon. One of the Bursaries is open to competition to students of the first or second year in the Faculty of Arts, and is tenable for three years, but the second moiety of the third year's Bursary is not payable until the bursar shall have passed the examinations in four subjects taken out of at least two Departments for the Degree in Arts. The other Bursary, also tenable for three years, is awarded to the medical student who stands first in the First Professional Examination, provided that his attendance at the classes has not exceeded the requirements of the Ordinance. The present annual value of each is £32.

Bursar in Arts—William H. Buchan, 1897.

Bursar in Medicine—Andrew M. Kerr, 1898.

DENNY BURSARIES (*Any Faculty*).—Four in number, founded in 1875, by the late Peter Denny, LL.D., engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who are not under fourteen years of age, and who have been pupils in regular attendance at the Dumbarton Burgh Academy for at least two years, one of which must be immediately preceding the date of such entry. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition Bursaries. The Trustees are Mr. Peter Denny and Mr. Leslie Denny, nominated in 1896 by the Sheriff of Dumbartonshire, the Principal and Professors, and one of the four Assessors of the General Council in the University Court appointed by the four Assessors, or a majority of them, in accordance with the provisions of Ordinance No. 91 of the Universities Commission (1889).

Bursars—¹ William Walker, 1895 ; John H. Barbour, 1896 ; Hugh de P. Birkett, 1897 ; James M'Nabb, 1898.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Two in number, the one founded in 1874 and the other in 1876. They are in value £15 per annum each, are tenable for four years, and consist of the annual proceeds of a sum subscribed by members of the Glasgow Dumfriesshire Society and invested for the establishment of Bursaries in Glasgow University. The Bursaries are open to first and second year's students, between the ages of 14 and 27, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident

¹ Vacant through lapse of time

in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Application to be made to the Secretary, Mr. Francis Stoddart, 58 West Regent Street, Glasgow, not later than 1st September of the year in which a vacancy occurs.

Bursars—John J. M. Elliot, 1896 ; Margaret L. Duncan, 1898.

DUNCAN'S BUTE BURSARIES (*Arts*).—Founded in 1875 for the benefit of natives of the island of Bute, by Mr. James Duncan of Valparaiso, and afterwards of Rothesay, who by his Will of date 19th October, 1874, bequeathed £2,000 for this purpose. The Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years ; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. The examination is in the same subjects and at the same time as the examination for the other competition Bursaries. There is a preference, *ceteris paribus*, to the name of Duncan, in such degree as the Patrons shall determine ; in other cases of equality the Bursary may be divided. Present annual value, £32 to each Bursar. On 28th October, 1897, the Patrons made a by-law declaring that it should not be competent for any one appointed after that date to a Duncan's Bute Bursary to hold any other Bursary or Scholarship concurrently with it.

Bursars—¹Archibald Leitch, 1895 ; Archie D. Thomson, 1897.

DUNDONALD BURSARIES (*Eight in Arts and Six in Theology*).—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity.

In 1858 the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained, authorizing an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

The Bursaries were further regulated by Ordinance No. 94 of the Universities Commission (1889). The Bursaries in Arts are tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure, if he engage in a course of study approved by the Senate in subjects

included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are tenable for three years, and no longer. A student cannot be appointed to a Dundonald Bursary in Divinity unless he has passed all the examinations required for graduation in Arts. In other respects the provisions of Ordinance No. 57 apply to all the Bursaries on this Foundation. The Bursars in Arts receive £40 each per annum, and those in Divinity £41 2s. 6d. The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, J. Auldjo Jamieson, Esq., 66 Queen Street, Edinburgh, to whom applications should be sent on or before the first of September. Two appointments in Arts and two in Divinity will be made for next session.

Bursars in Philosophy—¹Duncan Morrison, 1895; William A. Gillies, 1896; Robert J. Hamilton, 1897; Frank W. Saunders, 1898; Alexander C. Wilson, 1898.

Bursars in Divinity—¹Dugald Clark, M.A., 1896; ¹John A. MacCormick, M.A., 1896; David A. Morrison, M.A., 1897; David Preston, M.A., 1897; Angus J. Morrison, M.A., 1898; William A. R. Selkirk, M.A., 1898.

ELDER BURSARIES.—With a view to the encouragement of merit shown by the sons of working men, Mrs. Elder has intimated her intention of giving annually to the most deserving student of the Science and Art Classes in connection with the Young Men's Christian Association, Govan Section, a Bursary of £25 per annum, to which will be added by the Department of Science and Art an equal sum, making £50 in all. The Bursaries will be tenable for two years.

Candidates must have taken the undermentioned classes in the Govan Science and Art Section :—Mathematics (2nd stage); Theoretical Mechanics (Elementary); Steam and the Steam Engine, or Naval Architecture (advanced stage).

The competition by which the Bursar is to be selected will be in the above subjects, and will be conducted by the Department of Science and Art at the May examination, the tenth examination being held in May, 1898.

Candidates must be employed in workshops on the Govan side of the Clyde from Glasgow to and including Renfrew, or must reside in the district. A Bursar will be required to enrol in and attend the following classes at the University during the first year of his attendance :—(1) Natural Philosophy; (2) Chemistry (lectures); (3) Mathematics; (4) Naval Architecture and Marine Engineering. During the second year of attendance : (1) Mathematics; (2) Civil Engineering and Mechanics (lectures); (3) Naval Architecture and Marine Engineering. These Bursaries are to be continued during Mrs. Elder's pleasure.

¹ Vacant through lapse of time.

JAMES EWING ENTRANCE BURSARIES (*Arts*).—Four in number, founded in 1879 by the Merchants' House of Glasgow in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 for educating, training, and settling in business the sons of Glasgow merchants in entrance Bursaries of £20 each. The Bursaries are tenable for four years by students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to the Bursaries will be made in accordance with the annual Bursary competition at the commencement of the session; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September, in each year. (One vacancy.)

Bursars—¹John D. Johnston, 1895; Thomas M. Hunter, 1896; Archibald G. Bisset, 1897; John Martin, 1898.

JAMES FERGUSON BURSARIES (*Theology, Law, Medicine, or Department of Engineering Science*).—Two in number, founded in 1877, under provision of the Trust Disposition and Settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are tenable for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following rotation, viz.:—In November, 1878, and thereafter triennially, in Mental Philosophy, together with English Literature; in November, 1879, and thereafter triennially, in Mathematics and Natural Philosophy; in November, 1880, and thereafter triennially, in Classical Literature. The Examination is the same as that for honours in the Groups of Classics, Mental Philosophy, and Mathematics and Natural Philosophy respectively (with the addition in the case of the Group of Mental Philosophy of a paper on English Literature), at the annual Examination for Degrees in October. Candidates must have completed the course of attendance required for admission to examination in the corresponding Group for the Degree of M.A. with Honours. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz.:—Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable

¹ Vacant through lapse of time.

for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly Bursar without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly Bursar until he has graduated or received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, *ceteris paribus*, to young men natives of the parishes of Lesmahagow or Muirkirk, or the province of Pictou, Nova Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

Candidates for the Bursary to be competed for in 1899 will be examined in Mental Philosophy and English Literature, along with the examinations on these subjects for the Degree of M.A. with Honours. Names to be given in to the Assistant Clerk (Matriculation Office) not later than 20th September.

Bursars—James E. Henderson (Mathematics and Natural Philosophy), 1897; John Anderson (Classics), 1898.

FORFAR BURSARIES (*Arts*).—Founded by the Countess of Forfar in 1737. The foundation was remodelled by the Universities Commission (1858), by Ordinance of 31st May, 1862, and further regulated by Ordinance No. 79 of the Universities Commission (1889) of date 15th February, 1895. There are now five Forfar Bursaries in the gift of the Senate: the holder of each to receive £36, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance at the University, and are tenable for four years. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to the Forfar Bursaries.

Bursars—¹John Copeland, 1895; ¹Alexander Sellar, 1895; James A. Milligan, 1896; George H. Stevenson, 1897; Thomas Barbour, 1898.

FORREST BURSARIES (*Any Faculty*).—Founded by Mr. William Forrest of Easter Meadowhead, Drumgelloch, and Meadowsides, by Deed of Mortification of date 6th March, 1858. The Trust was re-constituted in 1886, under a Scheme of the Educational Endowments Commission. The Bursaries are five in number, each of the annual

¹ Vacant through lapse of time.

value of £22, and tenable at the University of Glasgow for such number of years, not exceeding five, as the Governors may determine. The Bursaries are awarded by competitive examination among young men who require aid in obtaining a University education, and who have been pupils in public or State-aided schools within the parishes of New Monkland, Slamannan, and Shotts, or who are natives of said parishes. One new appointment will be made at the beginning of session 1899-1900. Bursars cannot hold another Bursary, must prosecute a course for some degree, and attend at least two classes each session.

Governors—The Provost of Airdrie, the ministers of the parishes of New Monkland, Airdrie, and Clarkston, one representative from each of the School Boards of Airdrie and Clarkston, and one from the School Boards of Slamannan and Shotts alternately, and one appointed by the Sheriff of Lanarkshire. Secretary, Mr. G. B. Motherwell, Town Clerk, Airdrie.

Bursars—Robert W. Bell, 1895; John Gray, 1896; John M. Pryde, 1896; James Waddell, 1896; Archibald Fleming, 1898.

FOUNDATION BURSARIES (*Arts*).—These Bursaries were founded by James VI., in 1577, for students in Languages and Philosophy, and were originally four in number. By ordinance of the Universities Commission (1858) of date 7th June, 1862, these Bursaries were remodelled, and were further regulated by Ordinance No. 84 of the Universities Commission (1889) of date 15th February, 1895. Under the new scheme there are two Foundation Bursaries, the holder of each to receive £20 per annum. They are open for competition to all students entering the first or second session of attendance at the University, and are tenable for four years. The class attendance of the Foundation bursars is regulated by Ordinance No. 57, Sec. III. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science.

Bursars—Alexander D. Morton, 1896; John D. M'Callum, 1897.

FULLARTON OF OVERTON BURSARIES (*Arts*).—By Deed of Mortification and Constitution dated 22nd December, 1877, the Executors of the late John Fullarton, Esq., of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and Codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2,604 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10, but not exceeding £30. The Bursaries are tenable for two years by students in Arts under 25 years of age, belonging to or resident in the district of Cunninghame, in Ayrshire,

children of parents whose means and social position are not above those of tradesmen, small farmers, or shopkeepers, or others who may be struggling to secure their better education, and are by themselves, or with such assistance as they may be able to get from their parents or relations, unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English; but no candidate is eligible who has attended any University for more than one session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not, previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. Any accumulations through vacancies are added to the capital sum. Candidates are required to produce evidence of age.

Bursars—¹ William M. Tait, 1897; ¹ John Mitchell, 1897; ¹ Thomas M. Blackwood, 1897; Alexander Goldie, 1898; Robert K. Goodfellow, 1898.

WILLIAM GARDINER BURSARIES.—William Gardiner, M.D., of Ashton-under-Lyne, by his Settlement, dated 27th September, 1897, directed his Trustees to pay over to the University Court the sum of £1000, free of legacy duty, for the purpose of founding one or more Scholarships, Bursarships, or Exhibitions, to be devoted to such objects and in such manner as the Court should think fit, preference being given to students of Chemistry, Physiology, and Physics, French and German, and, so far as practicable, to sons of medical men, lawyers, and teachers.

GARTMORE BURSARY (*Arts*).—In accordance with the directions of the Founder of the Gartmore Medal (see p. 326), the Universities Commission (1889), by Ordinance No. 98, founded this Bursary, a sufficient capital having accumulated from the surpluses of the Foundation. It is open by competition to all students entering on their first year of attendance on a course for graduation in Arts, and is tenable for three years. Value, £21 per annum. In other respects the provisions of Ordinance No. 57 apply to the Gartmore Bursary.

Bursar—James H. Lindsay, 1898.

GENERAL COUNCIL BURSARIES (*Arts*).—Under a scheme originated by the late Mr. David Hannay, Clerk to the General Council, a sum of about £500 (Fund No. I.) was raised by subscription among the members of Council for the foundation of Bursaries to be held for three years, and open to competition to first and second year's students in

¹ Vacant through lapse of time.

Arts. This fund has now been exhausted. In addition, a sum of £2,382 2s. (Fund No. II.) was raised to form the nucleus of a permanent General Council Bursaries Fund, and invested in the names of Trustees. Of this sum £1,000 is due to the liberality of the late Rev. Wm. Park, D.D., minister of Airth, to be applied in memory of his brother, the Rev. John Park, D.D., minister of Cadder. With Dr. Park's consent, the income of this sum was appropriated to two General Council Park Bursaries of £20 a-year, open to students of either sex who, having passed the Preliminary Examination in Arts, are about to commence their second year of actual attendance at the University. The General Council Park Bursaries are tenable for two years. The remainder of the free income of the fund is devoted to providing bursaries, called the General Council Bursaries, of such number and of such amount as may from time to time be determined by the Trustees. The General Council Bursaries are open to students of either sex on their first entering the University, and are tenable for three years. No candidate shall obtain a General Council Bursary who shall not have passed the Preliminary Examination in Arts, but it is in the power of the Trustees to admit to a General Council Bursary, a candidate who has passed in at least three subjects of the Preliminary Examination on condition that the bursary shall not be retained unless the bursar passes in all the subjects not later than the second Preliminary Examination held after the time of admission.

Bursars—Walter G. Macdonald, 1897; ¹Andrew Shanks, 1897 (Park); John H. Stewart, 1898; Susan J. Russell, 1898 (Park).

JOHN GIBSON BURSARIES (*Any Faculty*).—Founded in 1877 by Miss Jane Gibson, in memory of her father, John Gibson of Oakbank and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student, or at most two, consist of the annual proceeds of £1,000. The administration is vested in trustees, who have great discretionary powers as to the conditions on which the Bursaries may be held. Their subsisting resolution is to award the Bursary to a Medical student entering on the third year of his course, and that it be retainable for three years. When a vacancy occurs applications are to be made in September to James Graham, LL.D., writer, 198 West George Street, Glasgow, who will furnish forms of application.

Bursars—David Kyle, M.A. (two years), 1898; Donald Douglas, M.A. (three years), 1898.

DR. THOMAS GIBSON (ROTHESAY) BURSARY (*Medicine*).—Founded in 1893 in terms of the Trust Disposition and Settlement of Misses Christian and Janet Gibson, who bequeathed £1,000, free of legacy duty for that purpose, in memory of their brother. The Bursary is

¹ Vacant through lapse of time.

tenable for four years, and is open to any matriculated student of Medicine (male or female) in the University preparing for service as a Medical missionary in connection with the Church of Scotland, who has completed the first professional examination in the year in which the Bursary is open. The Bursary is awarded to the qualified applicant who has obtained the best marks in the said examination; but in the case of an equality of marks between two or more candidates, the Senate may hold a further examination to determine to which of such candidates the Bursary shall be awarded. In the case of a casual vacancy, the Senate may appoint for the remainder of the period of tenure any qualified applicant who has shown diligence and proficiency in the earlier part of the curriculum in Medicine. In the event of the Bursary not being awarded in any year or years from lack of qualified candidates, the Senate may, in any subsequent year, if the funds of the Foundation admit, award an additional Bursary for one or more years, not exceeding four. There is a preference, *ceteris paribus*, to students of the name of Gibson.

GILCHRIST BURSARY.—See Howison and Gilchrist, p. 264.

GILHAGIE AND STRUTHERS BURSARY (*Theology*).—The Gilhagie Bursary was founded in 1753 by Agnes Gilhagie, widow of William Somerville, merchant in Glasgow, for a student in Divinity. It was tenable for four years, the annual value being £6 6s. In 1624 the Rev. William Struthers founded two Bursaries, each of the annual value of £6 13s. 4d., for students of Divinity. By Ordinance of the Universities Commission (1858) the two Struthers Bursaries were conjoined into one, tenable for three years, the holder to be M.A., and a student of Divinity. All other restrictions were abolished. By Ordinance No. 82 the Universities Commission (1889) combined the Gilhagie Bursary and the Struthers Bursary into one, called the Gilhagie and Struthers Bursary. The patrons of the joint-bursary are the Magistrates, Town Council, and Ministers of Glasgow, who may present any person without preference as to name, provided that he be a Master of Arts of a Scottish University. The Bursary is tenable for three years, and no longer, subject to the condition that the bursar shall during that period give regular attendance as a student of Theology in the University of Glasgow. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September. (Vacant.)

GLASGOW CITY EDUCATIONAL ENDOWMENTS BURSARIES (*Arts, etc.*).—Under scheme 10, section 31, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 19th May, 1885, the Governors of the Glasgow City Endowments Board are instructed to apply the annual sum of £500 in establishing Bursaries at the University of Glasgow. Each Bursary is of the yearly value

of £25. One half of these Bursaries are to be awarded among the Queen's Scholars at Training Colleges who have attended two years at the University of Glasgow, on the report of the Board of Examiners appointed by the Scotch Education Department. Every Queen's Scholar obtaining such Bursary shall be taken bound to complete his curriculum for a degree in Arts or Science during the time he holds the Bursary, and thereafter to submit himself for examination for such degree. The other half of the Bursaries are to be awarded by competitive examination among those who have attended public or State-aided schools in Glasgow, and who require aid in obtaining a University education. They are tenable for four years. Forms of application may be had from the Secretary of the Board—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary at the general competition. In 1898 five Queen's Scholars and three other Bursars will be appointed.

Bursars—¹ Mathew Geddes, 1895; ¹ James C. Pairman, 1895; ¹ David W. B. F. Campbell, 1895; Alexander Strachan, 1896; Robert Milne, 1896; May S. M'Clure, 1897; Andrew M. Kerr, 1897; William Runciman, 1897; Neil MacInnes, 1898; Alexander Moffatt, 1898.

Queen's Scholars—¹ Andrew M'Kerral, 1897; ¹ Francis W. Milne, 1897; ¹ William Stratton, 1897; ¹ William Macnab, 1897; ¹ William E. Busby, 1897; Samuel Wilson, 1898; Andrew Shanks, 1898; Alexander D. Morton, 1898; James Milroy, 1898; James Leckie, 1898.

GEORGE GRANT BURSARY (*Arts*).—Founded in 1885 by Miss Susan Smith Grant of West Thorn, Lauder Road, Edinburgh, in memory of her father, George Grant, Esq., cotton spinner, Mile-End, Glasgow. Miss Grant assigned and conveyed to the Senate the sum of £1,200 in trust, to be applied in all time coming for providing one Bursary in connection with the Faculty of Arts. Miss Grant retains the right of nomination to the Bursary during her lifetime, but has provided that in the event of her failing or declining to nominate, and in all cases after her death, the Bursar shall be determined by competitive examination of first year students who are entering on a three or four years' course of study, and the Bursary shall be tenable for three or four years accordingly. On the Bursary falling vacant otherwise than by lapse of time, an appointment may be made for the remainder of the term, or for the full period after competition.

¹ Vacant through lapse of time.

The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary he must produce evidence that he has taken his degree, or that he has passed all the examinations necessary for graduation. Any accumulations from vacancies or otherwise are to be added to the capital sum.

Bursar—Robert Shields, 1898.

GEORGE GRANT, JUNIOR, BURSARY (*Arts*).—Founded in 1885 by Mrs. Agnes Grant or Mair, wife of the Rev. John Mair, D.D., minister of the parish of South Dean, Roxburghshire, in memory of her brother, the late George Grant, junior, cotton manufacturer, Mile-End, Glasgow. Mrs. Mair, with the advice and consent of her husband as her curator and administrator-in-law, and for his interest in the premises, assigned and disposed to the Senate the sum of £1,200 in trust, to be applied by them in all time coming for providing one Bursary in connection with the Faculty of Arts. Mrs. Mair reserves to herself during her lifetime, and thereafter to her husband, should he survive her, the right to nominate to the Bursary, and to fix the classes to be attended by the Bursar and the period of his tenure. After the death of the survivor the period of tenure of the Bursary is to be four years, and the Bursar is to be selected by competitive examination of first year's students. In the event of a vacancy occurring otherwise than by lapse of time an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar shall require to graduate in Arts, and before payment of the second moiety of the last year's Bursary shall produce evidence that he has taken the degree, or that he has passed all the examinations necessary for graduation. Any accumulations through vacancies or otherwise are to be added to the capital sum.

Bursar—George R. Jeffrey, 1898.

HAMILTON BURSARIES (*Three in Arts, and Three in Theology*).—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694. They were regulated by Act of Parliament, 1758, and further regulated by Ordinance No. 96 of the Universities Commission (1889). There are three Hamilton Bursaries in the Faculty of Arts, and three in the Faculty of Divinity, and each of them is tenable for three years, and no longer. The bursars in the Faculty of Arts shall attend such classes qualifying for graduation in Arts, and in such order as may be approved by the Senate. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation. The bursars in Arts receive £20, those in Divinity £25 per annum each, should the state of the funds permit. The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, J. Auldjo Jamieson, Esq., 66 Queen Street, Edinburgh, to whom applications

should be sent on or before the first of September. (One vacancy in Arts and one in Theology.)

Bursars in Arts—Alexander Williamson, 1897; Isaac W. Lightbody, 1898.

Bursars in Theology—Neil M'Coll, 1897; Donald Macrae, 1898.

HAMILTON EDUCATIONAL TRUST BURSARIES (*Arts*).—Under scheme 39, section 28, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 13th May, 1887, the Governors of Hamilton Educational Trust are instructed to apply a sum, not less than £50 yearly, in providing University or Technical College Bursaries. These Bursaries, each of the yearly value of £15, and tenable for three years, are open to be competed for by pupils attending public or State-aided schools in the burgh and parish of Hamilton, who require aid in obtaining a University or higher education. Applications to be lodged with Patrick Keith, Esq., Hamilton, Clerk of the Trust, on or before the first day of September. There is one vacancy to which probably an appointment will be made in November, 1899.

Bursars—¹ Robert J. Hamilton, 1896; Thomas Graham, 1897.

HANNAY BURSARIES (*Arts*).—Three in number, founded in 1865 by the late Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men, not under fourteen and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other examination as the trustees may appoint; but the result of said examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three years—one to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow, and the President of the Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 77 St. Vincent Street, and also to the Assistant Clerk (Matriculation Office) not later than 1st September.

Bursars—¹ George D. Turner, 1896; Thomas Low, 1897; Alexander M. M'iver, 1898.

¹ Vacant through lapse of time.

HASTIE BURSARIES (*One in Arts and Two in Theology*).—The Rev. Mr. Hastie, by Deed of Mortification dated 5th September, 1707, founded a Bursary for a student in this University, which was first awarded in 1718. By an addition afterwards made to the foundation, the number of Bursaries was increased to three, two in Divinity and one in Philosophy.

The Universities Commission (1858), in an Ordinance of date 31st May, 1862, made regulations for these Bursaries, and further regulations have been made by the Commissioners (1889) in Ordinance No. 90. There are now three Bursaries on this Foundation, each £25 in value—one in Arts and two in Theology. The Bursary in Arts is open by competition to all students entering on their first session of attendance in the Faculty of Arts, and is tenable for four years, but if a student graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first session of attendance in the Faculty of Divinity. They are tenable for three years, and no longer. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to all the Hastie Bursaries.

Bursar in Arts—Peter H. Waddell, 1898.

Bursars in Theology—Robert Aitken, 1897; James Francis, 1898.

GLASGOW HIGHLAND SOCIETY'S BURSARIES (*Fifteen in Arts and Five in Medicine*).—In 1892 the Managers of the Glasgow Highland Society framed a scheme of Scholarships and Bursaries for students of Highland descent. The scheme includes Scholarships tenable at Secondary or Technical Schools, and Bursaries tenable at the Glasgow and West of Scotland Technical College and at the University. The University Bursaries in Arts are fifteen in number, each of the annual value of £20, and tenable for four years in the Faculty of Arts, but the continuance of a Bursary in the second and subsequent years is dependent on the character of the certificates obtained by a Bursar in his classes in the previous year. They are awarded by competition among students of the first year. The Bursaries in Medicine, each of the annual value of £25, are tenable for four years in the University, or any other College approved by the managers. Candidates must pass the preliminary examination of the College at which they desire to attend, and the managers reserve to themselves the right to appoint the most suitable. In 1899 there will probably be two Bursaries in Arts and two in Medicine open to competition. Secretary, R. Hope Robertson, Esq., 58 St. Vincent Street.

Bursars in Arts—¹ Alexander B. Mackay, 1895; Alexander Matheson, 1896; W. S. Sutherland, 1896; William Robertson, 1896; David James M'Leish, 1897; Peter J. M'Iver, 1897; Hector M'Lean, 1897; George A. M'Gregor, 1897; Malcolm MacAlister, 1897; Archibald Young, 1898; Peter Mitchell, 1898.

Bursars in Medicine—¹ Donald Douglas, 1895; John Stewart, M.A., 1896; Alexander Maclean, 1896; Ivy M'Kenzie, M.A., 1897; William F. Kay, 1897; Malcolm Hutton, 1898; William Stewart, 1898.

HOWISON AND GILCHRIST BURSARY (*Arts*).—In 1613 the Rev. John Howison, Minister of Cambuslang, founded a Bursary for a qualified scholar of honest name and good report, son of a craftsman of Glasgow. Failing the son of a craftsman of Glasgow, any other qualified scholar might be selected by the Patrons. Mr. John Gilchrist, tailor in Glasgow, founded in 1700 a Bursary in Philosophy for a student, being the son of a tradesman freeman in the burgh of Glasgow, with a preference to the names Gilchrist, Bryce, and Boyd.

By Ordinance No. 89 the Universities Commission (1889) combined these two Bursaries into one, called the Howison and Gilchrist Bursary. The Patrons are the 'Trades' House of Glasgow, and any person may be presented without restriction as to birth or preference as to name. The Bursary is tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. Value £17 per annum.

Bursar—David S. Brunton, 1896.

HUTCHESONS' EDUCATIONAL TRUST BURSARIES.—Under Scheme 9, Section 40, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 5th March, 1885, the Governors of Hutchesons' Educational Trust are instructed to apply an annual sum of not less than £400 in establishing University or Technical College Bursaries. These Bursaries, each of the yearly value of £20, and tenable for four years, are open to be competed for by boys who have attended Hutchesons' Grammar School for at least two years immediately preceding the competition, and completed the curriculum in the Secondary Department. Forms of application may be had from the Secretary of the Trust—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the first day of September in each year. The names of candidates who are found to possess the prescribed qualification will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the

¹ Vacant through lapse of time.

first year. The Bursaries will be awarded to those candidates highest in the order of merit who fail to win a Bursary at the general competition. In 1899 five Bursars will be appointed.

Bursars—¹George Arthur, 1895; ¹William L. Thompson, 1895; ¹Jacob Mains, 1895; ¹Archibald S. Wilson, 1895; ¹Hugh P. Wright, 1895; Hugh Kirkhope, 1896; John Paton, 1896; Douglas W. Hunter, 1896; Robert D. Campbell, 1896; Jas. A. R. Henderson, 1896; Robert S. Dewar, 1897; James B. Galbraith, 1897; Robert W. Barr, 1897; John Nicolson, 1897; Gavin Muir, 1898.

THOMAS HUTCHESON BURSARY (*Theology, Law, or Medicine*).—This Bursary, formerly known as the Old Library Bursary, was founded by Mr. Thomas Hutcheson of Lambhill in 1641. Preference was given to a son of a burgess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow. Ordinance No. 83 of the Universities Commission (1889) prescribes that the Bursary shall be called the Thomas Hutcheson Bursary, and that it shall be lawful for the Patrons to appoint to it, without preference as to name or birth, any Master of Arts who is entering on his course of study in any one of the Faculties of Divinity, Law, or Medicine. The Bursary is tenable for four years, but if a bursar in Divinity graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Value £11 2s. 2½d. per annum. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

Bursar—¹Alexander S. Wells, M.A., 1895.

HYNDFORD AND ROSS BURSARY (*Arts*).—In 1617 Mr. Michael Wilson founded a Bursary, called the Hyndford Bursary, for a student in Philosophy. The right of presentation belonged to the representative of Sir James Carmichael, viz., Sir W. C. Anstruther, Bart. In 1659 Captain William Ross of Rosseyle founded the Ross Bursary for a student in Languages and Philosophy. The appointment was vested in the Earl of Glasgow. By Ordinance No. 95 of the Universities Commission (1889), these two Bursaries were combined into one, to be called the Hyndford and Ross Bursary. It is tenable for four years, but if the bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The patronage of the Bursary is vested in Sir W. C. Anstruther, Bart., and his heirs, and the Earl of Glasgow and his heirs, who exercise their right of presentation by turns, beginning with the former. In other respects the provisions of Ordinance No. 57 apply to the Bursary. Value £10 16s. 8d.

Bursar—Wylie R. McIntyre, 1897.

¹ Vacant through lapse of time.

JOHN FERGUSON JAFFREY BURSARY IN MENTAL PHILOSOPHY (*Arts*).—This Bursary, founded in 1877, is of the annual value of £34, and shall be awarded to a student on entering the third session of his attendance, *i.e.* a student who has attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who having passed the Preliminary Examination in Humanity and Greek, has attended for one session the higher classes in those subjects, and who proposes to attend in the following sessions the classes of Logic, Moral Philosophy, and English Literature. Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary shall, as a rule, be tenable for two years, but on condition that the Bursar, during the two years of his tenure, shall complete his attendance on the classes of Logic, Moral Philosophy, and English Literature, and shall also attend one at least of the advanced classes taught by the Professors of Logic and Moral Philosophy, and shall pass the examinations in Logic, Moral Philosophy, and English Literature for graduation in Arts. The subjects of examination are—1. *Logic*: (a) Descartes, *Meditations*, (Veitch's translation); (b) Ferrier, *Lectures on Greek Philosophy*, the pre-Socratic period; 2. *English Literature*: (a) Shakespeare, *As You Like It*; (b) Tennyson, *Idylls of the King*. Candidates are not expected to deal with questions of textual criticism on either of the works in English Literature.

Bursar—¹Alexander B. Mackay, 1897.

MALCOLM KERR BURSARIES (*Science, etc.*).—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for M.A., with Second Class Honours; and in Chemistry, the same as those for the Final Science Examination for B.Sc. Present value, £19 to each Bursar. The next appointment in Chemistry will be made in 1899.

Bursar in Chemistry—¹Charles E. C. Stanford, B.Sc., 1896.

Bursar in Natural Philosophy—²Alexander A. Gardner, 1897.

¹ Vacant through lapse of time.

² Vacant through resignation of Bursar.

THE KINTYRE (KER) BURSARY (*Any Faculty*).—This Bursary, founded in 1862 by Robert Ker, Esq., of Auchinraith, merchant in Glasgow, originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the natives of Kintyre."

The Office-bearers of the Kintyre Club were appointed Patrons. By the Deed of Mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the Patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applicants must be connected with Kintyre, and be entering the University for the first time. When a vacancy occurs application should be lodged with the Honorary Secretary of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 10th June.

Bursar—Malcolm K. Turner, 1897.

THE KINTYRE (ALEXANDER LOVE) BURSARY (*Any Faculty*).—This Bursary was founded in 1890 by the family of the late Alexander Love of Campbeltown. It consists of the free proceeds of a sum of £300 sterling—about £11—and is administered by the Office-bearers of the Kintyre Club. The Bursar must be a native or the son of a native of Kintyre, or actually resident there, and entering upon his first session at the University. His circumstances must be such as to render aid important. The period of tenure is not to exceed four years. The Bursary will fall vacant for session 1899-1900. Application should be made to the Hon. Sec. of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 31st May, 1899. Appointments will be by examination, to be held about the middle of June.

Bursar—¹ William Robertson, 1895.

LAING BURSARY OR BURSARIES (*Arts*).—The late Alexander Laing, LL.D., some time Professor of Mathematics in Anderson's College, Glasgow, who died in 1882, bequeathed to trustees the sum of £500 to found one or two Bursaries in the Faculty of Arts. The trustees by a deed dated 26th July, 1883, conveyed to the Senate the sum of £500 of the preference 4 per cent. stock of the Glasgow and South-Western Railway Company, under certain conditions and regulations. The foundation is for providing, in the option of the Senate, one Bursary of £20, or two of £10 each. The Bursary is open to competition to all students entering on their first session in the Faculty

¹ Vacant through lapse of time.

of Arts (a preference being given, *cæteris paribus*, to natives of Brechin). The period of tenure is three years. Should the Bursary become vacant otherwise than by lapse of time, the income of the fund during the vacancy is to be added to capital. (Vacant.)

JAMES LAING BURSARIES (Arts).—Founded in 1892, under the Trust Disposition and Settlement of Mr. James Laing, Writer, Denny. So far as the funds admit, the Trustee appoints annually to two Bursaries, each of the annual value of £25, and tenable for four years. They are open to candidates (male and female) who have been educated for at least three years in any school or schools in the County (including the Burgh) of Stirling, and who are entering upon their first or second year of study in the University of Glasgow. Applications with certificates of qualification and good conduct from the teacher or teachers under whom candidates have been educated, should be lodged with Mr. William Jenkins, Writer, Denny, not later than 1st September. The names of candidates who are found qualified will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries. Failing candidates qualified as above, the Bursaries are open to competition to students of the first or second year from any part of Scotland. (Two vacancies.)

Bursars—¹James R. Archibald, 1895; ¹Michael Gavin, 1895; John L. Stewart, 1896; Arthur S. Hutchison, 1896; Charles M. Drew, 1897; Charles A. Young, 1897; John G. Gibson, 1898; James Bain, 1898.

LAMB BURSARY (Arts or Theology).—Founded in 1863 by the late Rev. Dr. William Lamb, minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael. The preference to applicants in the parish of Carmichael or Pettinain, and the restriction to applicants from the Presbytery of Lanark, were cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, about £12 per annum.

Bursar—William R. Merry, 1897.

LEADBETTER BURSARY (Arts).—This Bursary was founded in 1855 by Mr. John Leadbetter, merchant, Glasgow. It was made tenable for four years, and the classes to be attended by the Bursar in each of the four years were prescribed. A preference was given to boys who had attended the five years' Classical Course of the High School of Glasgow. Patrons—The Lord Provost and Magistrates. Ordinance No. 88 of the Universities Commission (1889) empowers the Patrons to present to the Bursary any person who has completed the five years' Classical course of the High School of

¹ Vacant through lapse of time.

Glasgow, whom failing, any person, without restriction as to parentage, who has received a similar classical education elsewhere. The Bursar must attend the Latin and Greek classes in the University during at least one year, and thereafter continue a course of study in the University necessary for the Degree of Master of Arts. The Bursary is tenable for four years, but if the holder graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers not later than 1st September.

Bursar—Francis Middlemiss, 1898.

ARCHBISHOP LEIGHTON BURSARY (*Arts and Theology alternately*).—Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, which were tenable for four years in Philosophy, and two or three years in Divinity. By Ordinance No. 86 of the Universities Commissioners (1889), the two Bursaries were combined into one of the annual value of £18, to be called the Archbishop Leighton Bursary. An appointment is made of a Bursar in the Faculty of Arts, and at the end of his period of tenure an appointment in the Faculty of Divinity, and so on alternately, the period of tenure in each case being three years, and a person who has held the Bursary in Arts being eligible for appointment also in Divinity. The appointment in 1899 will be in Divinity. The provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar. Applications must be lodged with the Town Clerk, City Chambers, on or before 1st September.

JOHN LEYDEN BURSARY (*Arts*).—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund consists of the sum of £429 3s. 8d. raised by subscription. The Bursary is open to free competition under the same regulations as the competition Bursaries in the University. Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the Degree of M.A.

Bursar—¹James Scrymgeour, 1896.

JAMES LOCHHEAD BURSARY (*Arts*).—Founded in 1886 in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £500 for that purpose, in memory of her brother,

¹ Vacant through lapse of time.

who died in Ohio. A preference is given to students of the name of Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. The Bursary is tenable for three years in the Faculty of Arts.

Bursar—Thomas R. M'Murtrie, 1897.

LOCHHEAD AND MITCHELL BURSARIES (*Arts*).—Two in number and of equal value, founded in 1886, in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £2,000 (free of legacy duty) for that purpose. A preference is given to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. They are tenable for four years in the Faculty of Arts.

Bursars—¹ James A. Mitchell, 1895; Norman R. Mitchell, 1896.

LOGAN BURSARIES (*One in Theology and One in Medicine*).—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. The preference to the names Logan and Johnstone was cancelled by Ordinance No. 57 of the Universities Commission (1889). The value of each is £16 per annum. Appointment by the Senate.

Bursar in Theology—¹ James M'David, 1896.

Bursar in Medicine—John Ferguson, 1897.

LORIMER BURSARIES (*Four in Theology, Four in Medicine, and Eight in Arts*).—By Trust Disposition and Settlement of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects:—1, Theology; 2, Medicine; 3, Philosophy; 4, Mathematics; and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

The following regulations have been adopted by the Senate:—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £25, and eight of the annual value of £19, and shall be tenable for three years.

2. Four Bursaries—viz., two at £25, and two at £19 shall be held by Students of Theology, and shall be open to competition

¹ Vacant through lapse of time.

² Vacant through death of Bursar.

to students entering the Divinity Hall. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have passed the examinations for the degree of B.D.

3. Four Bursaries—viz., two at £25, and two at £19, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow. The subjects of examination, which shall be prescribed by the Faculty of Medicine, are Elementary Anatomy, Elementary Chemistry, and Botany. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have passed his Third Professional Examination for the degree of M.B.

4. Four Bursaries—viz., two at £25, and two at £19, shall be open for competition to students who, having passed their whole Preliminary Examination, are entering on their second session of attendance, and who, not having attended the classes of Logic, Moral Philosophy, and English Literature, propose to attend these classes in the following sessions. Candidates shall be examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners shall be the Professors of English Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the Honours classes in English Literature, Logic, or Moral Philosophy. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have passed examinations in Logic, Moral Philosophy, and English for graduation in Arts.

5. Four Bursaries—viz., two at £25, and two at £19, shall be open for competition to students who, having passed the whole Preliminary Examination, are entering on their second session of attendance. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the class of Mathematics, and prosecute the course of study required for passing the Honours examinations in Mathematics and Natural Philosophy for a Degree in Arts. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have passed the examinations in Mathematics and Natural Philosophy for graduation in Arts or the First Science Examination in these subjects for graduation in Science.

In session 1899-1900 eight of the above £19 Bursaries will be open to competition—viz., two in Theology, two in Medicine, two in Philosophy, and two in Mathematics. The Bursary in Theology will be

decided by the results in the general competition for Bursaries in Theology. The competition for the Bursary in Medicine will be held along with the examinations for the Rainy Bursary. For the Bursary in Philosophy the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 266), and the examination will take place along with the Autumn examinations for M.A. in English and Logic. The examination for the Bursary in Mathematics will take place along with the Arts and Science Preliminary Examination in Mathematics, but may embrace higher papers.

Bursars in Theology—¹John S. Thomson, M.A. (1896), 1898; ¹Archibald Anderson, M.A., 1896; Neil Mackinnon, 1897; James W. Baird, 1898.

Bursars in Medicine—¹James D. Lickley, 1896; ¹Allan Martin, M.A., 1896; William A. Milne, 1897; William A. Milne, 1898.

Bursars in Arts—¹Matthew Babington (Phil.), 1896; ¹William Dick (Phil.), 1896; ²Thomas Pullar (Math.), 1896; ¹David K. Picken (Math.), 1896; Arthur P. S. Tulloch (Phil.), 1897; Roderick M. Nicol (Math.), 1897; Charles A. Young (Phil.), 1898; John C. Mann (Math.), 1898.

LUMSDEN BURSARY (*Theology*).—This Bursary was founded in 1850, by Mr. James Lumsden, stationer, Glasgow. Value, £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow. The Patrons, viz., the Principal, the Professors of Divinity, Hebrew, and Church History, and the President of the Stationers' Company—have resolved that when no candidate with a preferential claim applies for the Bursary it shall be awarded in accordance with the results of the competition for Bursaries in Theology. (Vacant.)

LUSK BURSARY (*Arts*).—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for "a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry in connection with any of the Presbyterian bodies in Scotland," "and who may, on public examination or competition, be found to be best qualified and most deserving." The competition is open to first or second year's students in Arts. Tenable for three years, but may be continued for an additional year. Value, £30 per annum.

Bursar—George Muir, 1897.

¹ Vacant through lapse of time.

² Vacant through appointment of Bursar to a Scholarship.

MACARTHUR BURSARY (*Medicine*).—Founded in 1881 by Miss Jean Macarthur, in memory of her uncle, John Macarthur, Doctor of Medicine in Glasgow. The Bursary consists of the annual proceeds of £500. The administration is vested in a Committee appointed annually by the Faculty of Physicians and Surgeons of Glasgow. The Bursary must be held by a student prosecuting the study of Medicine in the University of Glasgow. Under the rules laid down by the Committee, applicants must have completed three winter sessions of medical study, and not have entered on the fourth winter session. Preference will be given to applicants who have taken one or more First Class Certificates in the Medical Classes. The Bursary is tenable for two years.

Application to be made prior to 15th April to Alexander Duncan, LL.D., Faculty Hall, 242 St. Vincent Street, Glasgow, who will furnish forms of application.

Bursar—James M'Pherson, M.A., 1899.

M'CRIE BURSARIES (*Arts*).—These Bursaries were founded by the Rev. James M'Crie, D.D., of Dangart, Senior Minister of the U.P. Congregation of Old Meldrum, in the County of Aberdeen. They are of the annual value of £25, tenable for four years, provided the holder passes a prescribed examination at the commencement of each session and complies with the other conditions mentioned in the Deed of Foundation. The Bursary fund consists of certain lands in the parish of Colmonell and other heritable and movable property mortified for the purpose and vested in the Magistrates and Town Council of Ayr. The candidates must have been born in the parishes of Ballantrae, Colmonell, Barr, Girvan, Ayr, Old Meldrum, Tarves, Daviot or Bourtie, or in the City of Aberdeen, or in the Town of Ayr. The students must also be the sons either of mechanics, or of cottars, or of farmers not paying more than £100 of yearly rent, or of ministers not having more than £130 of yearly income, without respect to religious sect or denomination. Candidates of the names of M'Crie, Forsyth, M'Cracken, or Spark, are to have a preference if otherwise deserving. The Bursaries may be held along with other Bursaries. When a Bursary on this foundation is vacant the competition takes place in October, and the examination is held in Ayr. Candidates are examined on the following subjects:—Classics: Latin, Greek. Mathematics: Arithmetic, Algebra, up to and including simple equations, Euclid, Books I. to III. English: Composition, Geography, and History of Scotland. Candidates must send their names and addresses to A. G. Young, Esq., Town Clerk, Ayr, not later than 1st October of the year in which a vacancy occurs.

Bursars—Alexander D. Thomson, 1896; Martin Phillips, 1897; Robert Alexander, 1897; Robert R. Rusk, 1898.

JAMES MELVILLE M'CULLOCH BURSARY (*Arts*).—Founded in 1885 in memory of the late Rev. James Melville M'Culloch, D.D., minister of the West Parish, Greenock. It consists of the free annual income of about £400. It is open to competition to students of the first year in the Faculty of Arts, who shall have been educated for not less than three years at any school or schools in Greenock. Tenable for four years, the Bursar attending the qualifying course for the Degree in Arts. The second moiety of the fourth year's Bursar shall not be paid until the Bursar shall have passed all the examinations required for the Degree of Master of Arts. In the event of a vacancy occurring otherwise than by lapse of time, the Senate may appoint a student of the same standing qualified in like manner, or may arrange a new competition.

Bursar—John M. M'Gauley, 1898.

MACDONALD BURSARIES (*Arts, Law, or Medicine*).—Two in number, founded in 1882, in terms of the Trust Disposition and Settlement of Mr. Alexander Macdonald, M.P., who bequeathed to the University £1,000 for the purpose of assisting students in a course of purely secular education. The Bursaries are equal in value and tenable for four years in Arts, Law, or Medicine. Only miners under the age of twenty-one years, who have worked underground in any part of the United Kingdom, are eligible as candidates. The Bursaries are awarded in accordance with the results of an examination in general knowledge, particularly in writing, arithmetic, geography, grammar, and history.

Bursars—Andrew R. Reid, 1896 ; William Robertson, 1896.

JOHN AND ISABELLA MACDOUGALL BURSARIES (*Arts*).—Founded in 1884, under the Trust Disposition and Deed of Settlement of Miss Isabella Macdougall, Perth. Miss Macdougall directed her Trustees to devote the residue of her means and estate to the foundation and endowment of one or more Bursaries, payable to students born in the county or city of Perth, attending the classes in the Faculty of Arts, in the Universities of Edinburgh, Glasgow, and St. Andrews. The Bursaries are of the annual value of about £33, and are tenable for a period not exceeding three years. The Trustees are the Patrons. The candidates, who may be of any religious denomination, must undergo an examination by examiners appointed by the trustees. The Bursaries are open to students who are either (1) about to enter on their first session, and who shall pass the Preliminary Examination in Arts, or (2) who have already attended the junior classes for one session. A vacancy occurring otherwise than by lapse of time may be filled up by the appointment, after examination, of a student of equal standing with the retiring Bursar. It is not competent for any person to hold any of these Bursaries along with any other Bursary or appointment yielding to him an annual income of fifty pounds or upwards. The Trustees

are the following ministers in Perth, viz.:—The Rev. Wm. G. H. Carmichael, East Church Parish; the Rev. Archd. Fleming, St. Paul's Church Parish; the Rev. Peter R. Landreth, West Church Parish; the Rev. William Main, Middle Church Parish; and their successors in office for the time being, and Mr. Wm. Cochrane Young, solicitor in Perth. Candidates are requested to send in their names and addresses to Mr. Young, 9 St. John Street, Perth, on or before 1st September.

Bursars—¹John Gilmour, 1896; ¹Alexander M'Leish, 1896; Thomas Alexander, 1897; William L. Fordyce, 1898.

MALCOLM M'EWEN BURSARY (*Arts or Science*).—Mr. William M'Ewen, tobacco manufacturer, Glasgow, who died on 16th December, 1878, by his Trust Disposition and Settlement dated 28th November, 1878, directed his trustees, Mr. James Boyd, writer, Glasgow, and others, to devote a sum of £500 to the foundation of a Bursary in the University of Glasgow, to be called the "Malcolm M'Ewen Bursary," in memory of his brother, Mr. Malcolm M'Ewen, who died on 16th January, 1878. The Bursary was founded in 1884. After consultation with the Senate, the Trustees resolved that the regulations for the Bursary should be as follows:—The Bursary is open to competition at the annual Bursary Examination to all students entering on the first session of attendance at the University, is awarded by the Senate in accordance with the results of that examination, and is tenable for four years. The Bursar on his appointment must elect to follow either the course of study qualifying for the Degree of M.A., or the course of study qualifying for the Degree of B.Sc., and must attend at least two classes each winter session. The Bursary is payable by equal moieties on the second day of February, and at the close of the winter session, but the second moiety of the fourth year's Bursary shall not be paid until the Bursar shall have passed all the examinations for the Degree appropriate to the course of study chosen by him at the beginning of his tenure of the Bursary. A vacancy occurring otherwise than by lapse of time may, in the discretion of the Trustees, either be filled up at the first term thereafter, or not till the usual term at which the competition for the Bursary would, in ordinary course, have fallen due, and, in the latter event, accumulations from this source are to be added to the capital fund.

Bursar—Alexander B. Lamont, 1897.

JAMES MACFARLANE BURSARY (*Theology*).—Miss Helen Macfarlane, who died on 12th March, 1886, by a Codicil dated 15th August, 1882, to her Trust Disposition and Settlement, directed her Trustees to hand over to the Senate the Portrait of her late brother, Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and the sum of £1,000 free of legacy duty for the foundation of a

¹ Vacant through lapse of time.

Bursary in the Faculty of Theology, in memory of her brother, the Rev. Dr. James Macfarlane, minister of Duddingston. Preference to the name Macfarlane. The competition is open to Divinity students of the first year, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any four subjects taken out of at least two departments for graduation in Arts. The Bursary is tenable for three years, but in the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—Hector W. Mackay, 1898.

JOHN MACFARLANE BURSARY (*Medicine*).—Founded in 1874 by the brothers and sister of the late Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and to his memory. Patrons—The Faculty of Medicine. It is of £40 annual value, and it is tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow. The Examination will be held at the close of the first session of professional study. The subjects of Examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, is to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine. The subjects of Examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany.

Bursar—¹James C. Turnbull, 1896.

ROBERT MACFARLANE BURSARIES.—By a Mutual Trust Disposition and Settlement of date 7th January, 1888, Miss Mary Ann and Miss Margaret Macfarlane directed their Trustees to make over to the Senate of the University of Glasgow a sum of £3,000 for the foundation of Bursaries in memory of their brother, Robert Macfarlane, Writer, Paisley, out of the estate bequeathed by him to them. The Bursaries are to be given to deserving students at the University of Glasgow looking forward to being lawyers, specially including students in the Law Classes, preference being given to young men connected with Paisley.

MACGROUTHER BURSARIES (*Arts*).—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James Mac-

¹ Vacant through lapse of time.

Grouther. The Senate are the Patrons. The Bursaries are awarded by open competition among students entering the Faculty of Arts for the first time, and are tenable for four years; subject in each case to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A.

Bursars—¹Charles G. M'Ilravey, £20, 1895; ²William G. Macalister, £15, 1895.

M'KECHNIE BURSARIES (*Any Faculty*).—Two in number, founded by the Trust Disposition and Settlement of the late Thomas M'Kechnie, merchant in Girvan, who bequeathed for that purpose the sum of £2,000 to the Minister of the Established Church in Girvan, the Magistrates of Girvan, and others, and appointed them patrons of the Bursaries. The Patrons, in nominating and presenting students to the Bursaries, are instructed to prefer, in the first place, such as are of the founder's kindred; secondly, such as are of the name of M'Kechnie; and thirdly, such as were born in the parish of Girvan, provided that such students are properly qualified by their previous education for entering the University of Glasgow. Failing candidates qualified as above, the Bursaries are to be awarded to those who shall be found best qualified and deserving. The Bursaries are tenable for four years. When a vacancy occurs application should be made to Messrs. W. and D. Andrews, solicitors, Girvan, early in August.

Bursars—¹James MacGregor (Arts), 1895; ¹Alexander Birch (Med.), 1895.

MACKINTOSH MENTAL SCIENCE BURSARY (*Medicine*).—Founded in 1889 by Dr. Donald Mackintosh of London, in memory of his brother, Dr. Alexander Mackintosh, for many years superintendent of the Royal Lunatic Asylum, Gartnavel. Value, about £31. Tenable for one year. The competition is open to matriculated students of medicine who have attended the Lectures on Insanity in the University, and will be awarded in accordance with the results of an examination conducted in June by the Professor of Practice of Medicine and the Lecturer on Insanity acting conjointly. The holder of the Bursary shall, while holding it, devote special attention to the practical study of Insanity to the satisfaction of the Faculty of Medicine.

Bursar—James A. Mitchell, 1898.

MAITLAND CLUB BURSARY.—In 1888 Dr. W. H. Hill and Mr. J. Wyllie Guild, the then surviving members of Council of the Maitland Club, disposed of the remainder of the stock of the Maitland Club publications, and in pursuance of resolutions passed at meetings of the Council held on 3rd and 17th August, 1870, handed over the proceeds (£140) to the Senate for Bursary purposes. The free

¹ Vacant through lapse of time.

² Vacant through resignation of Bursar.

income is to be annually bestowed without any competitive examination on such student as the Senate may consider deserving. No appointment will be made until the free annual income amounts to £5.

MARSHALL BURSARIES (*One in Theology and One in Medicine*).—Mrs. Barbara Lauder or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her Will dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided “that the Principal and the Professors shall nominate and appoint such students only to the said Bursaries as they shall find, on such examination as they may appoint, to be properly qualified for entering upon the study of Divinity and Medicine at the said University.” Present value, £17 per annum to each Bursar.

Bursar in Theology—Malcolm Mackinnon, 1896.

Bursar in Medicine—William M. Brown, 1896.

MARSHALL TRUST BURSARIES (*Arts*).—Under scheme 198, section 29, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 17th March, 1888, the Governors of the Marshall Trust are instructed to apply (1) a sum not exceeding £300 per annum in providing University Bursaries. These Bursaries are awarded by competitive examination among pupils of either sex who have held free scholarships or school bursaries under the scheme, and pupils of either sex who are resident and attending public or State-aided schools in Lanarkshire or Stirlingshire, whose parents or guardians are of the class specified in section 25 of the scheme. The Governors may apply (2) a further sum of £300 per annum in providing similar Bursaries to be awarded solely to pupils who have held free scholarships under the scheme, who shall have competed for but failed to obtain any of the first mentioned Bursaries, but on condition that such free scholars shall pass the examination prescribed by the Governors. Each Bursary is £30 per annum, and is tenable for not more than five years. Forms of application may be obtained from the Secretary of the Trust—Mr. William Mitchell, 134 Wellington Street, Glasgow—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary in the general competition. Under (1) there are two vacancies, and under (2) there are also two vacancies.

Bursars—¹Harry Diamond, 1894; ¹Gregor Macgregor, 1894; ¹Alexander Brown, 1894; Thomas R. Rodger, 1895; John Fulton, 1895; Robert S. Hamilton, 1895; George Galbraith, 1895; Dougald B. Macquistan, 1896; James Jack, 1896; Alexander Russell, 1896; David G. Taylor, 1896; Thomas Graham, 1897; George Beaumont, 1897; Peter Carrick, 1897; John M'Laughlin, 1897; Archibald Lang, 1898; James P. Mackay, 1898; James Moyes, 1898; Matthew Stewart, 1898.

MENZIES BURSARIES (*Arts*).—The late Mr. James Menzies, of Glasgow, by his Will, dated 3rd November, 1837, left a sum of money to establish four Bursaries at either of the Universities of Edinburgh, Glasgow, or St. Andrews, tenable for four years, one to be given each year. The value of each Bursary is £45 per annum, but varies at the discretion of the Patrons. The Patrons are Sir Robert Menzies, Bart., of Menzies, and the Parish ministers of Dull, Weem, and Fortingall. In the first place, the kindred of the Testator; secondly, persons of the name of Menzies; thirdly, those born on the Menzies estates, will be preferred—provided always that they shall be found properly qualified by previous education; and failing these, the Patrons can present such as shall be found best qualified after due examination. The following are the subjects of examination:—*English*, Reading and Writing from Dictation; *Arithmetic*, as far as Decimal Fractions; *Euclid*, first three books; *Latin*, Caesar de Bello Gallico, first four books, and to translate a piece from English into Latin; *Greek*, Xenophon's Anabasis, first three books. Bursars to attend in some one of the above Universities the classes in their regular order for the M.A. Degree. Candidates are requested to send their names to Mr. John M. Menzies, The Menzies Estates Office, Aberfeldy, on or before 20th September. (One vacancy.)

Bursars—William Menzies, (1893) 1895 (special); Tom A. Menzies, 1895; Alexander Cunnison, 1896; Robert Menzies, 1897; Archibald Menzies, 1898.

MERCHANTS' HOUSE BURSARIES (*One in Arts, One in Law, and Two in Medicine*).—Founded in 1879 by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, which may also be held in Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2.

¹ Vacant through lapse of time.

The Bursary in Arts, or in Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechanics. 3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examination for the Bursaries in Medicine are the subjects of the Medical Preliminary Examination, and for the Bursaries in Arts and Law are those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics. When a vacancy occurs, applications should be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September.

Bursar in Arts—Walter L. Henderson, 1898.

Bursar in Law—¹ Alexander E. Adams, 1896.

Bursars in Medicine—¹ Edgar W. Sharp, 1895 ; Francis J. Henry, 1896.

METCALFE BURSARIES (*Science*).—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her Deed of Settlement and Codicils, dated respectively 8th August, 30th September, and 7th October, 1853, bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th January, 1869, and by resolution of date 14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see Index), at least two Metcalfe Bursaries or Scholarships, each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy and Chemistry ; two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the elements of Plane Trigonometry, of Mechanics, and of Theoretical Astronomy, from among matriculated students entering the Intermediate Honours class of Mathematics, or the class of Chemistry. (Two vacancies.)

Bursars—² James Moffat, 1897 ; ¹ William V. Shearer, 1897 ; John Jeffrey, 1898 ; Alfred J. Wilson, 1898.

MITCHELL (See Lochhead and Mitchell, p. 270).

MONTEITH BURSARIES (*Arts*).—Founded in 1869 by Mr. James Monteith of 38 Duke Street, St. James's, London. Three in num-

¹ Vacant through lapse of time.

² Vacant through resignation of Bursar.

ber, each of the annual value of about £14, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second-best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1899-1900 a regular three years' Bursary will be competed for, the examination being in French.

Bursars—¹Joseph Walker (French), 1897; Archibald G. Bisset (German), 1898.

JOHN MONTEITH BURSARIES (*Medicine*).—Founded in 1884 by Mrs. Helen Monteith, Greenbank, Dowanhill Gardens, Glasgow, in memory of her husband, the late John Monteith. Mrs. Monteith assigned the sum of £1,000 to Dr. John Gray M'Kendrick, Professor of the Institutes of Medicine, Dr. James Duncan M'Laren, Fellow of the Faculty of Physicians and Surgeons in Glasgow, James Graham, LL.D., writer, Glasgow, and Robert Monteith, her adopted son, as trustees, in the first instance, for the administration of the fund. The annual income after payment of the expenses of administration is to be awarded as two Bursaries to students who have attended the first and second sessions of their professional studies in the University of Glasgow with a view to Graduation in Medicine in that University. The Bursaries are tenable for two years. One Bursary is awarded annually in the month of November, and is given to the candidate who gains the highest number of marks in the subjects of Anatomy and Physiology at the Professional Examinations in these subjects held during the previous year (*i.e.* the April and October preceding said month of November). The founder has directed that it be represented to the holders of the Bursaries that they should feel themselves in honour bound after graduation to render professional assistance to the poor as much as may lie in their power.

Bursars—¹Anderson G. M'Kendrick, 1897; Leonard Findlay, 1898.

MORGAN BURSARIES (*Arts and Theology*).—Mr. John Morgan, West India Merchant, who died at Springfield House, Bishopbriggs, on 4th May, 1894, in his Trust Disposition and Settlement directed the Merchants' House to pay over half-yearly to the Presbytery of Glasgow one third of the net revenue of his estate to be applied in providing Bursaries for students in the University of Glasgow intending to become ministers of the Church of Scotland, one third to students in Divinity and two thirds to students in Arts. The students in Arts must be under twenty years of age, and must have

¹ Vacant through lapse of time.

passed the Preliminary Examination. The appointments are made for one year only, but may be renewed from year to year for one or more years. No Morgan Bursary shall exceed £20 a year. The holder of another Bursary of £20 or upwards cannot be appointed to a Morgan Bursary, but the holder of a Bursary of less than £20 may be appointed to a Morgan Bursary of such value that the two Bursaries together shall not exceed £20. Further particulars and schedules to be filled up by applicants may be obtained from the Presbytery Clerk.

MUIR BURSARIES (*Two in Arts or Science, Two in Science, and One in Theology*).—Founded in 1880, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of £1,000 for providing a Bursary in connection with the Chair of Divinity, to be awarded to a student of Divinity during the last three years of his curriculum; a sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate; and a further sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the period of tenure to be fixed by the Senate. Any of the Muir Bursaries in Mathematics and Civil Engineering may be held along with another Bursary.

The following rules and regulations have, in accordance with the provisions of the Deed, been sanctioned by Mr. Muir's trustees, and are to be observed in all time coming:—

1. *Muir Bursary in Divinity*.—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in four subjects taken out of at least two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

2. *Muir Bursaries in Mathematics*.—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior Bursary for one year, the former being of half the annual value of the latter. The appointment shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No

candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. *Muir Bursaries in Civil Engineering and Mechanics.*—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineering course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics (Class IV.). Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any case in which a satisfactory standard has not been attained by any of the competitors.

5. Arrangements for carrying out these rules and regulations shall from time to time be made by the Senate, and notice thereof shall be published in the *University Calendar*.

Arrangements for Session 1899-1900.—*Muir Bursaries in Mathematics.*—The appointment to the Junior Bursary, tenable during sessions 1900-1, 1901-2, shall be determined by the results of the written examinations passed in the course of the session 1899-1900 by the public students of the Second Class of Mathematics. The successful candidate shall, during session 1900-1, attend the Intermediate Honours Class, and during session 1901-2 the Advanced Honours Class of Mathematics. The appointment to the Senior Bursary, tenable during session 1900-1, shall be determined by the results of the written examinations passed in the course of the session 1899-1900 by the public students of the Intermediate Honours Class. The successful candidate shall, during 1900-1, attend the Advanced Honours Mathematical class.

Muir Bursaries in Civil Engineering and Mechanics.—Candidates for the Bursaries tenable during session 1900-1 must be (a) students attending during session 1899-1900 Engineering Class III., who are also attending or have in a previous session attended the Junior or the Senior Class of Engineering Drawing and Calculations, or (b) students attending during session 1899-1900 the Junior or the Senior Class of Engineering Drawing and Calculations, who have in a previous session attended the Engineering Class II. or Class III. The appointment shall be made by consideration of merit shown during attendance on, and by examination in the subjects of those classes. The successful candidates shall, during session 1900-1, attend the Senior Class of Civil Engineering and Mechanics (Class IV.).

Bursars in Mathematics.—Junior Bursar for session 1899-1900, John C. Mann, 1898; and for sessions 1899-1900 and 1900-1, William Sutherland, 1899; Senior Bursar for session 1899-1900, Alfred J. Wilson, 1899.

Bursars in Civil Engineering and Mechanics for session 1899-1900—Frederick L. Hislop, 1899; Archibald Leitch, 1899.

Bursar in Theology.—Robert Nelson, M.A., 1897.

WILLIAM MUIR DIVINITY BURSARIES (*Theology*).—Established in 1886 by the Governors of the Glasgow General Educational Endowments Board, under Section 35 of their Scheme. The Bursaries are two in number, each of £25 annual value. Candidates must have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University, and must lodge applications with Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, on or before the 18th day of October. The Bursaries are awarded in accordance with the results of the competition for Bursaries in Theology, and are tenable for two years.

Bursar.—¹ Donald Lamont, 1897.

NOTMAN BURSARY (*Theology*).—By deed of Settlement dated 15th August, 1876, Mrs. Margaret Adam Notman or Napier of Hillhead, Glasgow, widow of Mr. William Napier, directed her executors to pay over to the Principal and Professors of the Glasgow College, the sum of £500 sterling for the purpose of founding a Bursary in the College, to be called the Notman Bursary, in memory of her father and brother. The Bursar to be a student of Divinity, who shall appear in public examination to be best qualified and deserving. Present value, £18 per annum.

Bursar.—¹ Thomas Skeoch, 1896.

JAMES PATERSON BURSARY (*Arts*).—Founded in 1885 in commemoration of the completion, in 1879, of the fiftieth year of the existence of Adelaide Place Baptist Church, Glasgow, and of the Pastorate thereof of Dr. James Paterson during the same period. The sum subscribed for the purpose, amounting with interest to £619, was assigned and conveyed to the Senate in trust to be applied in all time coming to provide a Bursary in the Faculty of Arts to be called the James Paterson Bursary. The Bursary is tenable for four years, and is open to competition to any student of the first year in Arts who is a member of a Baptist Church, and who is entering upon his studies with a view to the ministry in the Baptist denomination. The Bursar during his tenure of the Bursary must be a member of Adelaide Place Baptist Church or of some other Baptist Church in Glasgow or neighbourhood. The Bursar must graduate in Arts, and before payment of the second moiety of

¹ Vacant through lapse of time.

the last year's Bursary must produce evidence that he has taken the degree, or that he has passed all the examinations necessary for graduation. On the Bursary falling vacant otherwise than by lapse of time, the Senate may appoint for the remainder of the term, or for the full period after competition. Before payment of the second moiety in each year the Bursar must produce a certificate of fitness for the ministry from a Committee of Adelaide Place Baptist Church, from the Baptist Union of Scotland, or some recognized Educational Institution of the Baptist Body.

Bursar—Eric J. Roberts, 1896.

JAMES ALEXANDER PATERSON BURSARIES (*Arts and Medicine*).—Founded in 1892, under the Trust Disposition and Settlement of James Alexander Paterson (for many years a member of Shamrock Street United Presbyterian Church), who died at Glasgow on 31st January, 1889. The Bursaries in Arts are six in number, three being of the annual value of £40 and three of £20 each, and are tenable for three years. They are open to competition to students entering upon the second year of their attendance at the University, who purpose studying for the ministry in connection with the United Presbyterian Church, and who intend to qualify for and take, in the University of Glasgow, the degree of M.A. Each candidate before the competition must lodge with the Clerk of Senate, (1) a written declaration of his intention to comply with and observe these conditions, and (2) a certificate from the Chairman or Clerk of the Theological Committee of the United Presbyterian Church, bearing that the Candidate is recognized by that Church as an accepted student pursuing his studies with a view to the ministry therein. In October, 1899, two Bursaries of £40 and £20 respectively will be offered for competition. The Examination is in Hebrew (Genesis, chap. xxiii., xxiv.) and Greek (Euripides, *Alceste*, and Gospel according to Luke). The Bursaries in Medicine are eight in number, four being of the annual value of £30 and four of £15 each, and are tenable for four years. They are open to competition to students entering upon the second year of their medical curriculum at the University of Glasgow, who intend to qualify for and take, in the University of Glasgow, the degree of M.B. Each candidate must before the competition deliver to the Clerk of Senate a written declaration of such intention. The subjects of examination are Mathematics and Natural Philosophy. Two Bursaries of £30 and £15 respectively will be offered to competition in October, 1899.

It shall be competent for the holders of these Bursaries, whether in Arts or in Medicine, to hold any other Bursary or Scholarship in this University, if the Regulations of that other Bursary or Scholarship permit.

Bursars in Arts.—¹Hugh Alexander (£40), 1896; William R. Wiseman (£40), 1897; William S. Rutherford (£20), 1897; David R. M. Keir (£40), 1898.

Bursars in Medicine.—¹Hyam Goodman (£22 10s.), 1895; ¹Ebenezer Mitchell (£22 10s.), 1895; George F. Buchan (£30), 1896; William B. I. Pollock (£15), 1896; John B. Stewart (£30), 1897; John Stewart, M.A. (£15), 1897; Archibald Leitch (£30), 1898; John Ferguson, M.A. (£15), 1898.

PATRICK BURSARIES (Arts).—These Bursaries were founded in 1860 by Mr. William Patrick of Roughwood, W.S., and were originally two in number, the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of £1,000 of the same stock. They were tenable for two years, but might be continued for other two. By Ordinance No. 85 of the Universities Commission (1889) the number of Bursaries was increased to three, all equal in value, and tenable for four years. If a Bursar graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects also the provisions of Ordinance No. 57 apply to the Patrick Bursaries. Candidates must have gone through a course of education at some one of the Public Schools in the County of Renfrew, where a regular course of Classical Study is pursued, and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office).

Bursars.—¹Thomas M'Ewan, 1895; Francis P. H. Stirling, 1896; Alexander S. Dunlop, 1897.

PENDER MEMORIAL BURSARY.—Founded in 1898 by a Committee of which the Marquis of Tweeddale was Chairman to commemorate the leading part taken by the late Sir John Pender, G.C.M.G., in the establishment and development of Submarine Telegraphy and in its extension throughout the world. The fund consists of about £1600. The following regulations were made by the Senate after communication with the Glasgow and West of Scotland Technical College and the Committee:—1. That the holding of a Diploma in Electrical Engineering of the Glasgow and West of Scotland

¹ Vacant through lapse of time.

Technical College be a condition of appointment to the Bursary. 2. That the appointment to the Bursary be made by the authorities of the Glasgow and West of Scotland Technical College. 3. That the Bursary be tenable for one year. 4. That the Bursar be required during his tenure to attend in the University three full courses or their equivalent from among those that would constitute in his case a qualifying curriculum of study for the Degree of B.Sc. in Engineering. 5. That, in the event of there being no candidate deemed worthy of appointment in any year, the interest be held over to provide a second Bursary in a subsequent year.

Bursar—¹ John S. Nicholson, 1898.

GLASGOW PERTHSHIRE SOCIETY'S BURSARY (*Arts*).—Founded by the Glasgow Perthshire Society in 1873. Value, £25, and tenable for three years. Open to competition to natives and sons of natives of the county of Perth, and also to sons of persons who are *bonâ fide* residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. Names of candidates to be sent to Messrs. George Gray and Son, County Buildings, Glasgow, Secretaries of the Society, not later than the twenty-fifth day of August preceding the competition.

Bursar—John Faichney, 1897.

POLLOCK BURSARIES (*Arts*).—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alex. Pollock, senior minister of the Free South Church, Paisley, who bequeathed £3,000, free of legacy duty, for that purpose. The Bursaries are designed to assist young men entering the University of Glasgow, whose circumstances are such as to render it desirable that they should have assistance in prosecuting their studies. The patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector, Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical study is pursued, certifying that he has completed his course of education at such school or academy. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office). Should no such qualified candidates present themselves, or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall be open to all the candidates in the ordinary Bursary Competition. The Bursaries are three in number, and are tenable for three years,

¹ Vacant through lapse of time.

during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have passed the examinations in four subjects taken out of at least two departments for graduation in Arts.

Bursars—¹James N. Stirling, 1896 ; Arthur G. H. Elder, 1897 ; Robert C. McGuire, 1898.

RAINY BURSARIES (*Medicine*).—In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Faculty of Medicine, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary Fund is to be divided annually between the two Bursars ; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to £20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund shall at length yield £60 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

One Bursar shall be elected annually after competitive examination on the subjects of Anatomy, Chemistry, Botany, Physiology, and Zoology. The competition is to be open to all students who have completed two years of the regular Medical curriculum at the University of Glasgow, and who are about to commence their third winter session ; and the examination is to take place in the month of October.

The successful candidate may hold his Bursary for two years, namely, during his third and fourth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct, is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

In 1899 the competition for one of these Bursaries will be held on 2nd and 3rd October. Candidates are required to give in their names (with Certificates) to the Assistant Clerk (Matriculation Office), on or before the 14th September.

Bursars—¹Andrew Mair, 1897 ; James N. Todd, 1898.

¹ Vacant through lapse of time.

RAMSAY WALKER BURSARIES (*Arts*).—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years. (One Vacancy.)

Bursar—James R. S. Wilson, 1896.

ROSS BURSARY.—(See Hyndford and Ross, p. 265.)

JOHN ROSS, JUNIOR, BURSARY (*Theology*).—Founded in 1880 by Mrs. Ross, widow of Mr. John Ross, junior, merchant in Glasgow, in memory of her husband. Patrons—The Senate of the University. The Bursary Fund consists of the capital sum of £1,000, set aside by Mrs. Ross for that purpose. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on the first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third year's Bursary shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—¹ Duncan Cameron, M.A., 1896.

SANDERS BURSARY.—(See Boyd and Sanders Bursary, p. 244.)

SCOTT BURSARIES (*Arts*).—The centenary of the birth of Sir Walter Scott was celebrated in Glasgow in 1871, and in conformity with a suggestion made by Lord Stanley (Earl of Derby), then Lord Rector of the University, the committee who had charge of the arrangements resolved to raise by public subscription a fund for the benefit of distinguished students, and to associate it with Scott's name. The amount subscribed was £3,500, and accordingly two Bursaries, along with the Scott Scholarship, were founded in 1874. The fund is administered by trustees, two of whom are elected by the Senatus, two by the Merchants' House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Pro-

¹ Vacant through lapse of time.

curators, and one being an Assessor of the Council in the University Court, appointed by the four Assessors or a majority of them, in accordance with the provisions of Ordinance No. 91 of the Universities Commission (1889). The Bursaries are now three in number, each of the annual value of £25, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University.

Bursars—¹ William A. Edward, 1895; William D. H. Stevenson, 1896; William Douglas, 1898.

SHEARER BURSARIES (*Any Faculty*).—Founded in the year 1887, by Archibald Shearer of Boag, who resided in Beith. By Deed of Mortification executed by Mr. Shearer dated 29th April, 1887, he conveyed his lands of Boag, in the parish of Kilbirnie, to trustees for the foundation and endowment of three Bursaries for the advancement of the higher education of the young men of his native parish of Dalry, in the county of Ayr. The Deed provides that the Bursaries shall be open to applicants between the ages of fourteen and twenty-four, who are the sons of parents or of a surviving parent *bonâ fide* resident for a period of not less than two years immediately preceding the date of application in the parish of Dalry, or to applicants who, for a period of not less than the last two years of their school curriculum, have received their education in the schools within the said parish, to enable the Bursars to pursue their education as students at the University in one or other of the Faculties. Students who have enjoyed a Bursary during their Arts course are eligible for a second Bursary in another Faculty. Applicants to undergo such examination as the trustees may from time to time appoint. Each Bursary to be one-third of free income from the lands of Boag, but not exceeding the annual sum of £30, and to be tenable for three years. Further information will be afforded by the Agents of the Trustees, Messrs. J. & J. M'Cosh, writers, Dalry.

Bursars—¹ Daniel K. Campbell, 1896; Robert Aitken, M.A. (two years), 1898.

SHIPWRIGHTS' COMPANY BURSARY.—In 1893 the Shipwrights' Company, London, intimated their intention to give a Bursary of the annual value of £25 to be competed for in the month of October by persons who intend to become students of Naval Architecture in the session then beginning. A preference is given to a candidate whose circumstances make pecuniary assistance of special value in the prosecution of his studies, and who comes to the University after serving in a shipyard. The subjects of examination are those prescribed for the Preliminary Examination in Science. The Senate reserves the power of withholding the Bursary, if none of the candidates reaches a sufficiently high standard of merit.

¹ Vacant through lapse of time.

SMITH (CRUTHERLAND) BURSARY (*Any Faculty*).—In 1849 Dr. John Smith of Crutherland founded two bursaries, which were not restricted to any particular Faculty. Patrons—The Directors of the Incorporated Company of Stationers. Sons of members of the Company are preferred, then sons of persons connected with any of the trades included in their charter, whom failing, such other students as may be approved of by the patrons. The value of each was £9 per annum, and they were tenable for one or more years at the option of the patrons. Ordinance No. 77, issued on 15th February, 1895, provides that the two bursaries shall hereafter be conjoined into one, and that the bursary shall be tenable for four years. If a bursar in Arts graduate at the end of three years, he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. If a bursar in Divinity graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Applications to be made to Mr. R. Brodie, 77 St. Vincent Street, Glasgow.

Bursar—James B. Paton, 1897.

STEVENSON OF DALRY BURSARIES (*Arts*).—The Rev. Robert Stevenson, D.D., minister of the Parish of Dalry, Ayrshire, who died on 11th September, 1890, by his Trust Disposition and Settlement dated 28th July, 1890, directed his Trustees to pay over to the University Court the sum of £2,000, free of legacy duty, for the foundation of two Bursaries in Arts. They are open for competition to students entering on the first or second session of attendance in the Faculty of Arts, who are prosecuting their studies with a view to the ministry of the Church of Scotland, with a preference in the first place to natives of the parish of Dalry in Ayrshire, and in the second place to natives of the parishes of Bannockburn or St. Ninians in Stirlingshire. The Bursaries, which are of equal value, are tenable for four years.

Bursar—Peter G. Smith, 1896; John R. Spence, 1898.

STEWART BURSARIES (*Arts*).—These Bursaries, three in number, founded in 1809 by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or the Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson were preferred, but this preference was cancelled by Ordinance No. 57 of the Universities Commission (1889). In case of a vacancy, a student of the same standing is appointed.

Bursars—¹Wallace Fairweather, (1895) 1896; Thomas M. Smith, 1896; George Stewart, 1896.

¹ Vacant through lapse of time.

STILLIE BURSARY IN MUSIC.—This Bursary was founded by Mrs. Thomas Stillie in 1885, the Trustees being the Executive Council of Queen Margaret College, and their successors in office. The Trustees were to apply the annual proceeds of the investment of £125 in providing one Bursary, to be granted yearly to a student of Music, as a reward for proficiency in Music, and an encouragement to further study. The Trustees were empowered to make such regulations as they should see fit from time to time for testing the merits of the candidates, and also for prescribing the age of candidates and the course of study to be pursued in connection with Queen Margaret College or otherwise, which the Trustees might desiderate as a condition of awarding the Bursary. The University Court, having taken over Queen Margaret College, are the successors in office of the Executive Council of Queen Margaret College in respect of the Stillie Bursary Fund, which in January, 1895, amounted to £160. The following regulations have been adopted by the Court:—

1. The Bursary shall be awarded in connection with the examinations in Music conducted in Glasgow by the Associated Board of the Royal Academy of Music and the Royal College of Music.
2. The Bursary shall be awarded by the Senate on a report by the Examiners of the said Board.
3. Only candidates for the Senior Grade Examination shall be eligible, and the Bursary shall be awarded to the candidate examined in Glasgow who shall obtain the highest number of marks in that examination.
4. The Bursary shall not be awarded if the candidate with the highest number of marks has not obtained honours; and in that case the proceeds shall be added to the capital fund.

Bursar—Jonathan R. Turner, 1899.

DR. STRANG BURSARIES (*Science*).—Mrs. Machen of FernieCraig, Skelmorlie, who died recently, left funds for the foundation of four Bursaries, each of the annual value of £20, to be instituted in connection with the University of Glasgow, in memory of her brother, the late Dr. John Strang, City Chamberlain of Glasgow from 1834 to 1863. The Trustees under their powers have meanwhile agreed that these Bursaries should be tenable by students of Engineering Science in the University of Glasgow. Each Bursary is tenable for three years. The Bursaries shall be awarded on the results of the Science Preliminary Examination, and no candidate shall be appointed to a Bursary unless he passes the whole preliminary examination. Each Bursar shall be required to attend a course qualifying him for graduation in Engineering Science on the side of Engineering.

The Bursaries shall be payable by equal moieties in the month of January and at the close of the winter session, but the second moiety of the second year's Bursary shall not be paid until the student has passed the first Science Examination for B.Sc. in Engineering Science, except in special circumstances. No student shall be

entitled to hold a Dr. Strang Bursary who is receiving any other Bursary.

In each of the years in which two appointments fall to be made, the Trustees, in appointing to the second Bursary, will take into account, not only the results of the examination, but also, and specially, other circumstances (financial and otherwise) affecting the candidates. Two Bursaries each of £20 for session 1899-1900 will be awarded after the preliminary examination in September-October, 1899.

Further particulars may be obtained from Professor Barr, D.Sc., Engineering Department, University of Glasgow, or from Messrs. Kerr & Barrie, Solicitors, 149 St. Vincent Street.

Bursars—¹ John G. Henderson, 1896; Patrick O'Hanlon, 1896.

STRUTHERS BURSARY.—(See Gilhagie and Struthers Bursary, p. 259.)

TAYLOR BURSARIES (*Any Faculty*).—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by Trust Disposition and Settlement of date 30th June, 1857, bequeathed to the University the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560, and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. The preference given to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and M'Arthur, was cancelled by Ordinance No. 57 of the Universities Commission (1889).

Bursars—¹ James M. Black, 1895; Joseph Barnes, 1897.

JAMES THOMSON PHILOSOPHICAL ENTRANCE BURSARY (*Arts, Phil.*).—Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died in 1876 before the close of his theological curriculum. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (a) Mental Philosophy and (b) English Literature alternately. The examination is open to all students of the first and second year who have not already attended the Logic, Moral Philosophy, or English Literature Class, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed his examinations in Latin and Greek for the M.A. Degree in Glasgow University. The subjects of Examination in Mental Philosophy and English Literature respectively are the same as for the John Ferguson Jaffrey Bursary. (See page 266.)

¹ Vacant through lapse of time.

The next examination will be held in October, 1900, the subject of examination being Mental Philosophy.

Bursar—James B. Galbraith, 1898.

WALKINSHAW YOUNG BURSARY (*Law*).—Founded in 1878 by Major Young, Dunmore, Kilm, who bequeathed to the University a sum of £500, free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper.

The following regulations have been adopted :—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have, at an examination in Arts, for the Degree of B.L. passed in not fewer than two Arts subjects, or have passed in any two subjects for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most distinguished. A student who passes a qualifying Examination in the November of the session in which an appointment is made, shall be held eligible within this rule, but one who has passed an examination in the November two years preceding such an appointment, and has not passed any subsequent qualifying examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or Scholarship in the University.

The next appointment to this Bursary will be made in December, 1900. Applications to be sent in to the Clerk of Senate on or before 1st December of that year.

Bursar—Alexander A. Gaidner, M.A., 1898.

WALTON BURSARY (*Medicine*).—This Bursary was founded in 1763 by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £34 per annum.

Bursar—Edgar W. Sharp, 1899.

ANDREW WEIR BURSARY (*Medicine*).—Founded in 1884, in terms of a Bequest by Mrs. Janet Maxwell or Weir, relict of Andrew Weir, feuar in Paisley. Mrs. Weir bequeathed the sum of £500 to the University, and directed the annual income of the legacy to be devoted to maintaining a Bursary in connection with the Medical School, in such a manner as the Senate may appoint. The Bursary is in memory of a son of the founder, Andrew Weir, a medical student of Glasgow University, who held subsequently the post of

Resident Physician in the Paisley Infirmary, and in the discharge of his duties there contracted a fever, of which he died. The Bursary is awarded annually at the beginning of the Winter Session, in accordance with the results of the second and third professional examinations, account being taken of the marks gained by all students who have passed both of these examinations within a period not exceeding thirteen months, reckoning backward from the date of the professional examinations in October of each year. During the tenure of this Bursary, which may be held along with another Bursary, the holder shall be bound to give regular attendance on the classes of the medical curriculum in the University.

Bursar—¹ Alfred G. Stewart, 1898.

WILLIAM WHYTE BURSARIES (*Arts, Law, or Medicine*).—Four in number, founded in 1893 in memory of Mr. William Whyte, at one time Preceptor of Hutchesons' Hospital, in accordance with instructions contained in the Trust Disposition and Settlement of his daughter Mrs. Isabella Whyte or Bamber, who died in 1882. The Trustees executed a Deed of Mortification transferring £2,000, less legacy duty, to Hutchesons' Hospital. The Bursaries are each of the annual value of £25, and are tenable for four sessions in the Faculties of Arts, Law, or Medicine. They are open to competition by boys who have attended and completed the curriculum in the Secondary Department of Hutchesons' Grammar School. Candidates must give in their names to Messrs. Hill & Hoggan on or before 1st September in each year, to be sent to the Clerk of Senate, that they may be entered for the University Entrance Bursary Competition. One Bursary will be awarded every year to the candidate highest in the order of merit who shall not have gained and elected to hold a Bursary of equal or higher value at the general competition, provided his attainments have reached a standard satisfactory to the Patrons of Hutchesons' Hospital.

The sum of £408 15s. 8d. at the credit of the Fund at 31st December, 1892, is to be allowed to accumulate until that sum, with such additions as may accrue from any portion of the income that may not be required for the purposes aforesaid, shall amount to a sum which will produce a return of £20 yearly. There shall then be instituted a Bursary of that value, to be competed for by girls educated in Hutchesons' Girls' School, which Bursary shall be tenable at the University of Glasgow.

Bursars—¹ John Young, 1895; Edward Magoveny, 1896; Richard Makins, 1897; David R. Mitchell, 1898.

KING WILLIAM'S BURSARIES (*Two in Arts and Two in Theology*).—These Bursaries, founded by His Majesty King William III. in 1695, were formerly six in number and known as the Exchequer

¹ Vacant through lapse of time.

Bursaries. They were tenable for six years—the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and the last three in Divinity. The bursars in Philosophy received £10 per annum each, and those in Divinity £13 6s. 8d. The Foundation was regulated by Act of Parliament, 1758. By Ordinance No. 99 the Universities Commission (1889) altered the conditions and directions affecting the Foundation, making two Bursaries in the Faculty of Arts each of the annual value of £15, and two in the Faculty of Divinity each of the annual value of £20. Each of the Bursaries is tenable for three years, and no longer. The Bursaries in Arts are open by competition to all students entering on their first year of attendance on a course of study for graduation in Arts. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first year of attendance on a course of study for graduation in Divinity. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation.

Bursars in Arts—¹James N. Brown, 1896; James Sinclair, 1897.

Bursar in Divinity—¹Joseph Campbell, 1896.

WILLIAMS BURSARIES (*Arts and Theology*).—The Rev. Dr. Williams, London, in the year 1711 bequeathed to certain individuals in London, in trust, an estate, to found Bursaries for educating natives of South Britain at the University of Glasgow. The founder, with a particular view to support the cause of Protestant dissent in England, directs that every Bursar on this foundation shall promise, in writing, to become a preacher among the dissenting ministers of that country. The Bursaries are tenable for three years, but renewable for another year on application, on the understanding that the student has graduated in Arts, and is about to enter the Divinity Hall. Value, £40 per annum each. The right of presentation is vested in the founder's trustees. Secretary to the Trust—Mr. Francis H. Jones, Dr. Williams' Library, Gordon Square, London, W.C. The state of the funds of this foundation will not admit of more than one appointment being made in session 1899-1900.

Bursars—Richard L. Franks, 1896; Owen L. Jones, 1897; Stanley H. Turner, 1897; Thomas Rook, 1898.

WILSONE BURSARY.—(See Boyd and Wilson, p. 244.)

GEORGE YOUNG BURSARY (*Science*).—By Trust Disposition and Settlement of date 30th August, 1892, Mrs. Catherine McFarlane or Young, who died at Helensburgh on 4th November, 1893, directed her Trustees to make over to the Senate of the University of Glasgow the sum of £1,000, free of legacy duty, for the purpose of

¹ Vacant through lapse of time.

founding, in memory of her husband and son, a Bursary in connection with the class of Civil Engineering, on such terms and conditions as the Senate should from time to time fix. The Senate have determined that the Bursary shall, upon the recommendation of the Faculty of Science, be awarded to the candidate who has the best record in his First Science Examination. Students who have passed the whole of that examination or at least in Mathematics and Natural Philosophy with or without the higher branches specified in Ordinance No. 23, Section ix., Sub-sections 1 and 2, may offer themselves as candidates, but students who have completed their qualifying attendance in Engineering shall not be eligible. The Bursary shall be tenable for one year, during which the Bursar must attend a course of Laboratory Practice in Engineering and either a course (or half course) of Engineering Lectures or a course of Engineering Drawing. Appointment in the month of April after the Degree Examinations.

Bursar—Robert M. Dyer, 1899.

MAJOR YOUNG'S FUND BURSARIES (*Law*).—Two in number, founded in 1890 by the Trustees of the late Major Young, founder of the Walkinshaw Young Bursary. The amount of the Bursary Fund is about £1,312, and each of the Bursars receives one half of the free annual income thereof. In accordance with Major Young's desire, the Bursaries are open only to applicants whose pecuniary circumstances are such as in the judgment of the Senate render it desirable that they should have assistance in prosecuting their studies at the University, preference being given, *cæteris paribus*, to natives of Argyllshire or Renfrewshire. One of the Bursaries is tenable for six years, and is awarded by competitive examination to a student of the first year who intends to study for a Degree in Law. The Bursar is required during his tenure of the Bursary to attend such classes and to pass such examinations for a Degree in Law as shall be held by the Senate to correspond to the successive stages of his course; and he must attend a class or classes in the Faculty of Law during at least the last two years of his tenure of the Bursary. The other Bursary is tenable for two years, and is awarded by competitive examination upon subjects prescribed by the Senate. Candidates must have expressed their intention of attending the classes of Scots Law and Conveyancing, and the Bursar must attend these classes in separate sessions during his tenure of the Bursary. Either of these Bursaries may be held with any other Bursary, Scholarship, or Prize in the University, but both shall not be held together by one Bursar. The subjects of examination are those prescribed for the General Bursary competition.

Bursars—Arthur J. Cubberley (six years), 1897; Joseph Barnes (two years), 1898.

2. EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS.

ALPHABETICALLY ARRANGED.

N.B.—In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

FOUNDATION.	No. of Scholarships, &c.	TENABLE BY	Approximate Annual Value of each.
Black Theological, -	1	Masters of Arts of Scot. Univ.,	£147
Breadalbane, - - -	2	M.A. or B.Sc., Eng., Glas. Univ.,	£50
Clark, George A., - -	4	3 M.A., 1 M.A. or B.Sc., do.	£170
Clark, John (Mile-end),	12	Arts Students at close of Curric.,	£50
Cunninghame, - - -	2	Bachelors of Laws of Glas. Univ.,	£34
Donaldson, Alexander,	1	Candidates for B.Sc. (Chemistry),	£40
Donaldson, Robert, -	2	Bachelors of Science of Gl. Univ.,	£62
Eglinton, - - - - -	2	Masters of Arts of do.	£100
Euing, William, - -	3	Do. do.	£100
1851 Exhibition Science	2	Science Students, - - - -	£150
Ferguson, - - - - -	6	Masters of Arts of Scot. Univ.,	£80
Foulis Memorial, - -	1	Medical Graduates or Licentiates,	£50
Houldsworth, - - -	1	Research Students in Nat. Phil.,	£150
Lloyd's Register, - -	3	Students of Naval Architecture,	£50
Luke, - - - - -	1	Masters of Arts of Glas. Univ.,	£95
Mackay Smith, - - -	2	Students in Nat. Phil. and Chem.,	£48
Mackinnon, - - - -	1	(See page 313),	£45
Metcalfe, - - - - -	1	Masters of Arts of Glas. Univ.,	£100
Reid-Stewart, - - -	1	Do. do.	£48
Sandford, - - - - -	1	Greek Students, do.	£20
Scott, - - - - -	1	Masters of Arts of do.	£80
Shaw Philosophical, -	1	Do. Scot. Univ.,	£140
Snell (at Oxford), - -	5	Masters of Arts, etc., Glas. Univ.,	£80
Thomson Experimental	3	Students of Natural Philosophy,	£20

BLACK THEOLOGICAL FELLOWSHIP.—This fellowship, of the annual value of £140 or thereby, was instituted under the Will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the sanction of the University Court:—

1. The Black Theological Fellowship shall be tenable for one year.
2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland completing the ordinary curriculum of Theological study in the University of Glasgow in the academical year in which the examinations are held.

3. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

4. The Fellowship shall be awarded by the Theological Faculty at the close of the winter session to the most distinguished graduate in Divinity of the session qualified in terms of the foundation, but the Fellowship shall be awarded only if the Candidate has, in the opinion of the Faculty, attained a sufficient standard of merit.

5. The holder of the Fellowship shall, during the tenure of it, perform such duties—whether in the form of giving a short course of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship or Prize falling to be awarded at the same time, or subsequently during its tenure.

Subject to these regulations an appointment to the Fellowship will be made in April, 1900.

Present Fellow—William J. S. Miller, B.D., 1899.

BREADALBANE SCHOLARSHIPS.—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two Scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his Deed of Settlement made provision for the “annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be paid yearly to deserving students in this college, as Scholarships or Bursaries, to be called the ‘Breadalbane Scholarships,’ in such manner as shall be fixed by the *Senatus Academicus* of the said University.”

The following regulations have been approved by the Senate :—

The number of Scholarships shall be two, of £50 each per annum, for the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in April immediately preceding.

Each scholar shall pursue such course of scientific study during the tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years; provided that at the end of the first and second years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully prosecuted the prescribed course of study.

Scholars—William Fulton, M.A., 1898; Thomas Pullar, M.A., 1898.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the regulations:—

1. One of these Bursaries shall be competed for annually, at or immediately after the October examination for Degrees in Arts or Science.

2. The four Bursaries are assigned respectively to four of the Groups of Honours enumerated in Ordinance No. 11, Section xi., of the Universities Commission (1889), viz.:—(1) Classics; (2) Mental Philosophy; (3) Mathematics and Natural Philosophy; (4) English (Language, Literature, and British History).

For the Classics Bursary or Scholarship either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Classics, may be candidates; for the Mental Philosophy Bursary or Scholarship, either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mental Philosophy, may be candidates; for the Bursary or Scholarship in Mathematics and Natural Philosophy either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mathematics and Natural Philosophy, may be candidates; and for the Bursary or Scholarship in English either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in English, may be candidates.

But no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. Degree or the B.Sc. Degree.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University as the Senate may determine.

4. The subjects of examination each year shall be those which constitute the examination for Honours in one of the above-named Groups (the Group selected each year for examination to be publicly announced). The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required of graduates in Arts with highest honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year ; but it shall be in the power of the Senate to hold an examination for the same Scholarship, and in the same subjects, in the following year ; provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed ; but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for scholarships to be held for less than four years, no student shall be admitted to examination who would not be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree of M.A. with Honours in each of the several departments, and for the Degree of B.Sc.

One of these Bursaries or Scholarships will be competed for, subject to the foregoing regulations, in October, 1899. It will be tenable for four years, and the examination will be in the third of the four Groups above enumerated, viz., Mathematics and Natural Philosophy.

Candidates are requested to give in their names to the Assistant Clerk (Matriculation Office), not later than 20th September.

Bursars—¹ John Miller, M.A., (1895), 1897, (Mathematics); William H. Lang, B.Sc. (three years), 1897, (Natural Science); David H. Crawford, M.A., 1897 (Classics); Hugh R. Buchanan, M.A., 1898 (Mental Philosophy).

JOHN CLARK (MILE-END) SCHOLARSHIPS.—By the Deed of Constitution regulating the John Clark Bursaries (see page 248), the Founder, Mr. John Clark, also instituted Scholarships of £50 annual value, open for competition to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University. The Scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the trustees, and are tenable for four years, subject to the condition that the Scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the trustees, any other profession or business they may prefer. The trustees do not appoint any one who already holds a scholarship of greater value. Three Scholarships will be competed for in October, 1899, one in the Group of English (Language, Literature, and British History), one in the Group of History, and one in the Group of Classics. The examination will be on the subjects prescribed for the Degree of M.A. with Honours in the respective Groups.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), and also to Mr. Wm. Kidston, 50 West Regent Street, Glasgow, on or before the 20th September.

Scholars—¹ William Boyd, 1895; ¹ Adam B. Stewart, 1895; William G. Bell, 1896; Thomas E. Jones, 1896; James W. Copeland, 1896; James Johnston, 1897; William W. Fulton, 1897; David M. Stewart, 1897; Joseph White, 1898 (Math. and Nat. Phil.); John Lochhead, 1898 (English); William M. R. Pringle, 1898 (History).

ANDREW CUNNINGHAME SCHOLARSHIPS.—Mr. Andrew Cunningham, Town Clerk Depute of Glasgow, who died in 1886, bequeathed to the University, free of legacy duty, £5,000, for the purpose of completing the tower, and also £350, the annual revenue of which was to be applied in purchasing a gold medal as a prize in the class of Mathematics. He also bequeathed to the Senate £2,000 for two Bursaries or Scholarships in connection with the Scots Law

¹ Vacant through lapse of time.

and Conveyancing Classes. The following regulations were adopted by the Senate on 15th March, 1888:—

1. One half of the free income of the bequest shall be applied for the purpose of a Scholarship in connection with the class of Scots Law, and the remaining half for the purpose of a Scholarship in connection with the class of Conveyancing.

2. Each Scholarship shall be tenable for two years.

3. On each vacancy the candidate who, in the opinion of the Senate, is the most distinguished Bachelor of Laws of the year, shall be appointed, special consideration being given to eminence in Scots Law and Conveyancing.

4. Students who have been found qualified for the Degree of LL.B. at the spring and winter graduations of the year in which the appointment is made, shall be eligible as candidates.

5. The conditions of holding the Scholarships are that the scholars give such assistance in the work of the classes of Scots Law and Conveyancing respectively as the Professors of these classes may require, subject to the approval of the Senate.

6. In the event of a vacancy occurring during the tenure of any Scholarship, the Senate may, if they think fit, appoint a Scholar to hold the Scholarship for the unexpired period.

An appointment to the Scots Law Scholarship will be made in November, 1899.

Scholar—¹ Alexander M. MacRobert, LL.B., 1897.

ALEXANDER DONALDSON SCHOLARSHIP OR BURSARY.—Founded in 1881 by Will of the late Mr. Alexander Donaldson, iron merchant in Glasgow, who bequeathed to the Senatus of Glasgow University £1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

The following regulations were adopted by the Senate on 1st May, 1884:—

1. The Scholarship shall be awarded to the candidate who, presenting himself for the first examination for the Degree of B.Sc. held in the month of April, shall stand highest in Chemistry.

2. The Scholarship shall be tenable for two years.

3. The second moiety of the second year's stipend shall be paid only after the Scholar has passed all the examinations for the Degree of B.Sc.

These regulations apply to students proceeding to the Degree of B.Sc. under the new regulations for that Degree.

Scholar—Robert M. Dyer, 1898.

¹ Vacant through lapse of time.

ROBERT DONALDSON SCHOLARSHIPS.—Founded in 1887 by the trustees of the late Mr. Robert Donaldson, iron merchant, Glasgow, who left £2,000 to the Senate for two Scholarships for such scientific purposes as his trustees should approve. The following tentative scheme has been approved by the trustees :—

1. The income of the fund shall be devoted for two years alternately to Scholarships in Chemistry and Biology.

2. Each Scholarship shall be tenable for two years.

3. Students who have taken the Degree of B.Sc. in Glasgow University shall be eligible.

4. The appointment shall be made by the Senate on a report as to the merits of the candidate or candidates by the Professor of the subject.

5. The scholar appointed shall devote himself for two years in this University, or for one year in this University and the other in such place as the Senate may approve, to research in the subject in which he has obtained the Scholarship. The holder of the Scholarship in Biology shall have the option of selecting Zoology or Botany as the subject of research.

6. The Senate are not bound to make an appointment unless the candidate is in their opinion qualified.

The appointment in November, 1900, will be in Chemistry.

Scholar—Annabella M. Clark, B.Sc., 1898.

EGLINTON FELLOWSHIPS.—On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating in a suitable manner his virtues and public services; and, subscriptions having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum as a Scholarship or Fellowship Fund in the University of Glasgow.

By the Trust Deed of date November 8th, 1865, the net yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall from time to time be fixed by the Senatus Academicus of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition,¹ and the Fellowships shall be awarded by the Senatus Academicus of the University to those students who have shown themselves in a public

¹ i.e. Either at the ordinary graduation in April or at the supplementary graduation in November.

competition to have acquired the greatest amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the *Senatus Academicus* of the University, who shall fix the subjects of examination, and the relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships:—

1. The number of the Eglinton Fellowships shall be two (of about £100 per annum each), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The competition for the Fellowship shall be open only to deserving students who shall have taken the Degree of Master of Arts in the University of Glasgow, at the term preceding the competition.¹ In the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

3. One of the Fellowships shall be open to competition in October, 1866, and thereafter triennially (1899); and the other in October, 1867, and thereafter triennially (1900).

4. The successful candidate shall undertake, during his tenure of the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The Examination for the Eglinton Fellowship to be competed for in October, 1890, and thereafter sexennially (1902), shall be in Classics; and the Examination for the Eglinton Fellowship to be competed for in 1893, and thereafter sexennially (1899), shall be in Mental Philosophy.

The subjects of examination in Classics and Mental Philosophy respectively shall be the same as those for the Degree of Master of Arts with Honours.

6. The Examination for the Eglinton Fellowship to be competed for in October, 1897, and thereafter sexennially (1903), shall be in Mathematics and Natural Philosophy; and the Examination for the Eglinton Fellowship to be competed for in October, 1900, and

¹ *i.e.* Either at the ordinary graduation in April or at the supplementary graduation in November.

thereafter sexennially, shall be in English (Language, Literature, and British History).

The subjects of examination in Mathematics and Natural Philosophy and in English respectively shall be the same as those for the Degree of Master of Arts with Honours.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to compete for the Eglinton Fellowship.

The next ordinary competition will take place in October, 1899, the subject of examination being Mental Philosophy.

Fellows—¹Horace F. Wallace, M.A., 1896; James C. Ker, M.A., 1897.

WILLIAM EUING FELLOWSHIPS.—Founded in 1874 by Mr. William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable books, the sum of £6,000 for the endowment of three Fellowships, each of the value of £80 per annum, and tenable for not more than five years. The Fellowships are open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and are awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months in the year, and “to open private classes, of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purpose by a systematic course of private tuition.”

One Fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy, and English Literature.

The Senate have issued the following regulations for the competition for these Fellowships:—

1. In the department of Classics there shall be one Fellowship competed for in October, 1875, and thereafter at intervals of four years (1899), the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in October, 1876, and thereafter at intervals of three years (1900), the period for which the Fellowship in the department of Mental Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in October, 1875, and a

¹ Vacant through lapse of time.

Fellow appointed for two years; the Mathematical Fellowship becoming vacant in October, 1877, shall be filled up for a period of three years, the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be filled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

One of these Fellowships, value £100 per annum, will be open to competition in October, 1899. It will be tenable for three years, and the examination will be in Classics.

Fellows—¹Joseph F. M'Fadyen, M.A., 1895 (Classics); William Boyd, M.A., 1897 (Mental Philosophy); Robert J. T. Bell, M.A., 1898 (Mathematics).

EXHIBITION (1851) SCIENCE RESEARCH SCHOLARSHIPS.—Her Majesty's Commissioners for the International Exhibition of 1851 have instituted Science Scholarships, each of the annual value of £150, and tenable for two years, subject to the scholar's first year's work being deemed satisfactory by the Scientific Committee of the Commissioners. The nomination to a Scholarship has been placed at the disposal of this University in each year since 1891, and it is anticipated that similar arrangements will be made in future years.

Candidates must be British subjects, and must have been students of Science in some approved institution or institutions for a period of three years, at least the third year of the period having been spent in this University. Capacity for original research tending to advance Science or its applications is required as the main qualification. The Scholarships may be held at any University in England or abroad, or in some other institution approved of by the Commissioners; and every scholar will, in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated. He must devote himself to some particular scientific work in connection with those branches of Science, such as Physics, Mechanics, and Chemistry, the extension of which is especially important to our national industries. A sum of £25 is reserved from the fourth half-yearly instalment, and paid by the Commissioners on receipt from the Scholar, after the expiration of his Scholarship term, of a satisfactory report of his study and research during the term.

¹ Vacant through lapse of time.

When a nomination falls to be made in any year, due notice will be given to enable candidates to lodge their applications with the Clerk of Senate before the beginning of April. Every application must be accompanied by a statement of the scientific study (including original research) in which the candidate has been engaged, and of the work to which he proposes to devote himself if appointed to the Scholarship.

Scholars—¹James Muir, B.Sc., 1897; James Francis Bottomley, Ph.D., 1898.

FERGUSON SCHOLARSHIPS.—With a view to the encouragement of the higher learning in Scotland, the trustees of the late Mr. Ferguson, of Cairnbrock, out of his legacy of £50,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called “The Ferguson Scholarships.”

The examination of candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 26th September next, and following day. One of the Scholarships will be awarded for the greatest proficiency in Classics; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest proficiency in Mental Philosophy, including Logic, Psychology, Metaphysics, and Moral Philosophy.

Subjects for examination—

CLASSICAL SCHOLARSHIP.—*Latin*—Lucretius, I., II. Virgil, *Aeneid* I.–VI. Horace, *Odes*. Juvenal, *Satires*, I., III., and X. Cicero, *Letters*—Tyrrell's Selection. Tacitus, *Annals*, I.–III. Sallust, *Catiline* and *Jugurtha*. Translation from Authors not prescribed. Latin Prose Composition.

Greek.—Homer, *Iliad*, XVI., XXII. Aeschylus, *Oresteia*. Aristophanes, *Birds*. Theocritus. Herodotus, VI., VII. Plato, *Gorgias*. Plutarch, *Life of Timoleon*. Translation from Authors not prescribed. Greek Prose Composition.

Questions on Greek and Roman History, Literature, Language, and Antiquities. The Questions will bear chiefly on the books prescribed.

MATHEMATICAL SCHOLARSHIP.—*Mathematics*.—Euclid's Elements. Modern Geometry. Algebra, including Determinants, Finite Differences, and Theory of Equations. Trigonometry, Plane and Spherical. Analytical Geometry, in two and three dimensions. Differential and Integral Calculus, and Differential Equations.

Natural Philosophy.—Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of

¹ Vacant through lapse of time.

Solids and Fluids. Experimental Physics and Applied Mathematics, including all the ordinary subjects treated in Lectures on Natural Philosophy.

PHILOSOPHICAL SCHOLARSHIP.—*Logic*.—Province and History of Logic. Notions, Judgments, and Inferences. Recent developments of Formal Logic. Fallacies. Theory and Methods of Scientific and of Historical Proof.

Psychology and Metaphysics.—The Phenomena and Laws of Mental Life and of its Development. Theory of Knowledge. Theory of Reality.

Moral Philosophy.—Psychology and Metaphysics of Ethics. Relations of Ethics to Law, Politics, and Economics. Applied Ethics.

History of Philosophy.—History and Critical Analysis of Ancient and Modern Systems of Philosophy.

The competition will be open to all persons who have passed the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the degree at the same time or not); provided that, at the time of the competition, not more than six years have elapsed since the date of their first matriculation after having passed the Preliminary Examination, and who have not already gained one of these Scholarships.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 60 per cent. of the possible marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following rule of the trustees :—

“Persons gaining the Scholarships will be expected, during the tenure thereof, to prosecute studies in furtherance of the higher learning; and those who have not graduated shall be required to do so before the last payment is made.”

Certificates will be granted to such of the unsuccessful competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examinations.

Candidates are requested to give in their names, personally or by letter, at the Office of THE FERGUSON BEQUEST FUND, 94 Bath Street, Glasgow, before 1st September, 1899, and due intimation will be sent to those enrolled as to the place and hours of Examination.

The following Students of the University of Glasgow have obtained Ferguson Scholarships :—

1868, James Smith, Mathematical; 1869, Archibald B. Cameron, Philosophical; 1870, John Cross, Classical; 1870, James Orr, Philosophical; 1872, Wm. W. Walldell, Classical; 1873, Thomas H.

Millar, Mathematical ; 1874, William Patrick, Philosophical ; 1875, William Y. King, Classical ; 1878, John M'A. Dodds, Mathematical ; 1878, Thomas B. Kilpatrick, Philosophical ; 1882, Robert F. Muirhead, Mathematical ; 1883, James A. M'Callum, Philosophical ; 1886, James Buchanan, Mathematical ; 1886, Andrew F. Smith, Philosophical ; 1888, Ernest F. Scott, Classical ; 1889, Evan Keri Evans, M.A., Philosophical ; 1890, Abraham Levine, M.A., Mathematical ; 1891, James Holm, M.A., Mathematical ; 1893, Horatio S. Carslaw, M.A., Mathematical ; 1897, William Boyd, M.A., Philosophical ; 1898, George D. Valentine, M.A., Mathematical.

Present Holders of the Scholarships.—Arthur B. Keith, M.A., of Edinburgh University, Classics, 1897 ; Malcolm C. M'Alpin, M.A., of Edinburgh University, Mathematics, 1897 ; William Boyd, M.A., of Glasgow University, Mental Philosophy, 1897 ; George G. Sim, M.A., of Aberdeen University, Classics, 1898 ; George D. Valentine, M.A., of Glasgow University, Mathematics, 1898 ; David H. Macgregor, M.A., of Edinburgh University, Mental Philosophy, 1898.

FOULIS MEMORIAL SCHOLARSHIP.—This Scholarship was founded in 1882 in memory of the late David Foulis, M.D., Glasgow, who had distinguished himself in Pathology and Surgery, and died at the age of 35 years. It is to be awarded as often as the accumulated income from the invested funds amounts to £50. The next vacancy will take place in session 1901-2. It is tenable by a graduate or licentiate whose professional education has, to the extent of not less than two years, been received at the University or one of the extra-mural schools of Glasgow ; and who shall, in the opinion of the trustees, have manifested a capacity for original work in the department of Pathology. The purpose of the Scholarship is to assist in the prosecution of such work in one of the Medical Schools in or furth of Scotland, approved of by the trustees ; and the trustees have power to determine whether it should be awarded by competition or otherwise.

The trustees are the Professor of Practice of Medicine in the University, the President and Visitor of the Faculty of Physicians and Surgeons of Glasgow, and the Pathologists of the Western and Royal Infirmaries. Further particulars may be obtained from Messrs. J. M. Taylor, Foulis & Co., 180 St. Vincent Street.

Scholars—Peter Paterson, M.B., M.R.C.S. ; Walter K. Hunter, B.Sc., M.D.

WILLIAM HOULDSWORTH RESEARCH STUDENTSHIP.—In March, 1898, Mr. William Houldsworth, merchant in Glasgow, in recognition of the distinguished services of his friend, Lord Kelvin, to the cause of scientific research, made over to the University the sum of £5600 invested in Great Eastern Railway Four per cent. Debenture Stock, to provide a Research Studentship in connection with the

Faculty of Science. Candidates must be students of at least two years' standing in the University of Glasgow. The studentship is tenable for two years, and the holder must prosecute his work with diligence and regularity so as to receive from the Professor of Natural Philosophy a certificate of creditable success. A proportion, viz., four-fifths, of the annual income is payable without deduction to the Research Student for personal expenses, and the remaining fifth part, after meeting the expenses of administration, is applied in payment of laboratory expenses and materials in connection with the Research Student's work, and in payment of his matriculation fees and of the fees for such Science Classes, if any, at the University as he may attend with the approval of the Senate. The said one-fifth part of the income must be expended at the sight and to the satisfaction of the Professor of Natural Philosophy or upon orders granted by him, and the Research Student is required to furnish the Professor with a statement showing the sums so expended in each session, and also during his tenure of the Studentship. Any surplus remaining over shall be added to the principal of the fund. In the event of the Studentship falling vacant otherwise than by lapse of time, the Senate may immediately make another appointment for a period not exceeding two years, and in the event of the Senate considering it not advisable at any time to make an appointment on the occurrence either of a casual vacancy or of a vacancy in regular course, the same may be deferred, and the income thus left unused shall be added to the principal of the fund.

When a vacancy occurs, the applications of candidates must set forth the particulars required by Ordinance No. 61, Section III. See page 134.

Research Student.—Vincent J. Blyth, 1898.

LLOYD'S REGISTER SCHOLARSHIP.—In 1889 the general Committee of Lloyd's Register of British and Foreign Shipping intimated their intention of establishing a Scholarship of the yearly value of £50, tenable for three years by students of Naval Architecture in this University. In 1893 two additional Scholarships, each of the same value and tenure as the first, were announced. They are open to competition to candidates whose age does not exceed 23 years. Each candidate must produce satisfactory evidence that £50 a year would enable him to pursue his studies, and that he would be unable to do so unless this aid were afforded. The subjects of examination are the following:—Euclid, Books I. II. III. IV. VI. and XI.; Algebra, including Quadratic Equations, the three Progressions, and Binomial Theorem; Plane Trigonometry, with use of Logarithms; Elements of Statics, Dynamics, and Hydrostatics; Practical Shipbuilding; Mechanical Problems. A preference will be given to a candidate who possesses

a thorough grammatical knowledge of English and of either French or German, although he may be somewhat deficient in the other subjects prescribed. One Scholarship will be open to competition in October, 1898. Names of Candidates to be sent to the Assistant Clerk (Matriculation Office) on or before 20th September, 1899.

Scholars—¹Charles S. Douglas, 1896; Charles La Torre, 1897; John G. Johnstone, 1898.

LUKE FELLOWSHIP.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3,000 sterling, “to perpetuate the memory of his nephew George Rankin Luke” (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), “in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial.” Professor Nichol exercised the discretionary power thus conferred on him by directing that the sum bequeathed should be applied to the founding of a Luke Fellowship. The following are the regulations :—

1. There shall be a single Luke Fellowship (of about £95 per annum), tenable for three years, subject to the approval of the Senate at the end of the first and second years.

2. The Luke Fellowship shall be awarded on examination on English Literature, and on prescribed periods in History.

3. The Luke Fellowship shall be open to competition in October, 1868, and thereafter triennially.

4. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing; provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have graduated at the ordinary graduation in the April immediately preceding.

5. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing Fellowship.

6. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

Ordinance No. 100 of the Universities Commission (1889) prescribes that the provisions of Ordinance No. 57 shall apply to the

¹ Vacant through lapse of time.

Luke Fellowship, but provides that it shall not be a condition of tenure of the Fellowship that the holder shall give assistance in teaching the class of English Literature.

The next competition for the Luke Fellowship will take place in October, 1901.

Fellow—John Edgar, M.A., 1898.

MACKAY SMITH SCHOLARSHIPS.—One in Natural Philosophy, the other in Chemistry, each of the annual value of £48, and tenable for two years in the Universities of Edinburgh and Glasgow alternately. During sessions 1882-83 and 1883-84 they were held in the University of Edinburgh, and during sessions 1884-85 and 1885-86 in the University of Glasgow. The next examination will be held in this University at the close of session 1900-1. Candidates must have already attended, or must be then attending the class of Natural Philosophy or Chemistry respectively. The examination in Chemistry will be held along with the examinations for the Degree of B.Sc. (new regulations), and the examination in Natural Philosophy along with the examinations for M.A.

MACKINNON SCHOLARSHIP.—By the will of the late Sir William Alexander Mackinnon, K.C.B., LL.D., Surgeon-General of Her Majesty's Army and Director-General of the Army Medical Staff, a sum of £2000, less legacy duty, was bequeathed to this University for the foundation of a Scholarship. The Scholarship is to be awarded to the person who shall in each year show the greatest proficiency in a competitive examination in (1) Geology, (2) Natural History (with Comparative Anatomy), and (3) Modern Foreign Languages, the examination in each subject to be held every third year. The subjects are to be taken in rotation, commencing in such order as the University authorities shall determine. In the event of the Scholarship not being awarded in any year, the amount of the Scholarship with any accumulations shall be added to the amount to form the Scholarship in the same subject on the recurrence of the examination therein.

METCALFE FELLOWSHIP.—Founded by the late Miss Sarah Metcalfe, Glasgow. (See under Metcalfe Bursaries, p. 280.)

The following are the regulations of the Metcalfe Fellowship :—

1. There shall be a Fellowship on the Metcalfe Foundation of the annual value of £100, tenable for three years, to be competed for in October, 1872, and thereafter triennially (1899).

2. Candidates must be Masters of Arts with Honours in the Group of Mathematics and Natural Philosophy, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall

for all purposes be held to have graduated at the ordinary graduation in the April immediately preceding.

3. The examination shall be the examination for the Degree of Master of Arts with Honours in the Group of Mathematics and Natural Philosophy.

4. The Fellowship shall be held subject to the condition of pursuing a course of study in such of the following subjects—viz., Higher Mathematics, Practical Astronomy, Civil Engineering, and Chemistry—as the Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

Fellow—¹ George D. Valentinie, M.A., 1896.

REID STEWART FELLOWSHIP.—Mr. James Reid Stewart, Ironmaster, Glasgow, who died on 8th August, 1896, directed his Trustees to pay a legacy of £2000, under deduction of legacy duty, to the Senate, the free income of which is to be applied in and towards a Fellowship to be called the Reid Stewart Fellowship.

The following are the regulations:—

1. Candidates must be Masters of Arts who have taken the Degree of M.A. with Honours in either the Group of History or the Group of Economic Science, or be students presenting themselves for the final examination for the M.A. Degree with Honours in either of these Groups.

But no student shall be admitted to the examination after the expiry of more than two winter sessions from the time of his completing the course necessary for the Degree of M.A. with Honours in either of these Groups.

2. The papers set in the examination shall be the same as the papers set for Honours in these Groups at the October examinations for Degrees in Arts, and the Examiners shall be the Examiners for the Degree of M.A. with Honours in these Groups. The Fellowship will be awarded for excellence in one Group, but not in both.

3. The Fellowship shall be tenable for three years, subject to the condition that the holder give his time and attention to the prosecution of his studies with a view to one of the learned professions

¹ Vacant through lapse of time.

or to such professional or business avocation as may be approved of by the Senate.

4. In the event of a vacancy occurring otherwise than by lapse of time, it shall be in the power of the Senate to appoint, after competition under the same conditions as above, either for the unexpired period of the vacated Fellowship or for the full period of three years. If the Fellowship is offered for a period of less than three years, the conditions of competition and tenure shall be the same as those stated above, provided that no student shall be excluded from the competition who was eligible when the Fellowship was last offered for three years.

5. In the event of the Examiners reporting in any year that no candidate has done sufficiently well to deserve the Fellowship, no appointment shall be made on that occasion, but the Fellowship shall be offered for competition in the following year under the same conditions as in the case of a vacancy occurring otherwise than by lapse of time.

6. It shall not be competent for the holder of the Reid Stewart Fellowship to hold any other Bursary, Scholarship, or Fellowship, in this University, without the special leave of the Senate.

The first competition will take place in October, 1899.

SANDFORD SCHOLARSHIP.—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value about £20 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April (1900), and is open to all matriculated students (not Masters of Arts) who have attended the Public Greek Classes for not less than two sessions.

The subjects of examination are selected from the following authors:—Homer, 12 books; Herodotus, 4 books; Sophocles, 3 plays; Thucydides, 4 books; Æschylus, 3 plays; Demosthenes, one or more orations; Aristophanes, 3 plays; Xenophon's *Memorabilia*; Pindar; Plato, one or more dialogues.

Candidates are examined on not more than four of the above-mentioned authors (of which Homer is always one)—two in prose and two in verse; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

The subjects for April, 1900, will be:—Homer, *Iliad* i.-xii.; Æschylus, *Oresteia*; Thucydides, i.-iv.; Plato, *Gorgias*; Unseen

Translation ; Prose Composition, and Verse if any candidate offers it.

Scholar—John Harvey, 1898.

SCOTT SCHOLARSHIP—(See under head “Scott Bursaries,” p. 289).—This Scholarship, in value £80 per annum, is open for competition to Masters of Arts in the University of Glasgow of not more than three years’ standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. The examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the Senatus Academicus may determine. The Scott Scholarship is not to be held along with any other Scholarship, Fellowship, or Bursary of the University of Glasgow. “The subjects of examination for the said Scholarship shall be, with the addition after-mentioned, Classics, or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. degree with Honours in the given department or departments for the year, and in addition to the examination above mentioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass.” The Scholarship will be open to competition in October, 1900. The examination will be in Mental Philosophy and in English Literature (not Language) from Chaucer downwards.

Scholar—Robert M’Ewan, 1898.

SHAW PHILOSOPHICAL FELLOWSHIP.—This Fellowship was founded by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton, and County of Ayr, in 1764, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of the Graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £4,100 mortified to the Senatus Academicus of the University of Edinburgh under the following conditions, namely:—

1. The said Fellowship shall bear the name of “THE SHAW PHILOSOPHICAL FELLOWSHIP,” in memory of the said Sir James Shaw, Baronet.

2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said Senatus Academicus, and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities—that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years' standing at the time of the competition, and of all students of the said Scottish Universities who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.

5. The Fellowship shall be tenable for five years only, but the said Senatus Academicus of the University of Edinburgh shall have power, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the number of foundations of a similar kind in the University of Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship shall, except in the case below provided for, be conducted by two Examiners, to be appointed in the manner following—to wit, one of the Examiners shall be appointed by the Senatus Academicus of the University of Edinburgh, either from among the members of the said Senatus or others, as they may think proper, and the other Examiner shall be appointed by the Senatus Academicus of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the Senatus Academicus of the University of Edinburgh, who shall, as Patrons of the said Fellow-

ship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand One Hundred Pounds, and of any addition of the said sum which may hereafter be made thereto, as after-mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary, in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the Senatus Academicus of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he is required to deliver them; but the said Senatus, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

Present Fellow—J. B. Baillie, M.A. (of Edinburgh University), 1899.

SNELL EXHIBITIONS.—In the year 1677, Mr. John Snell of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to trustees a considerable estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitioners should be limited to fourteen, it being lawful to elect three in each year, unless the number on the Foundation should thereby be increased beyond fourteen, in which case not more than two were to be elected, the Exhibition being tenable for five years; but by an agreement of date 2nd April, 1878, under provisions of the same scheme, the following regulations were sanctioned:—

1. The stipend of each Exhibitioner admitted to the foundation after the 31st day of December, 1878, shall be £132.

2. Until the 31st day of December, 1880, the greatest number of Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibitioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect in each year shall be three, unless the number on the foundation for the time being would be thereby increased beyond the greatest number for the time being permitted by this agreement, in which case not more than two shall be elected.

By a subsequent agreement of date 21st January, 1886, the following modifications were made:—

1. The value of the Snell Exhibitions shall be reduced to £80 a year.

2. They shall be held, as heretofore, for five years, but the whole sum of £400 will be paid to each Exhibitioner during the first three years of his tenure in equal annual sums, but a moiety of the last annual payment shall be kept back, if the authorities of Balliol College think fit, until the Exhibitioner shall have taken his Degree.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided¹ as Under-graduate Students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland." "No candidate shall be admitted to examination who shall be a member of the University of Oxford of more than one year's standing from the day of his matriculation inclusive; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year; but a candidate otherwise qualified shall not be excluded from examination on the ground that he is a graduate of any Scotch University."

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than 1st December, 1899. The next examination will be held in March and April, 1900, on the same days and at the same hours as the Examinations for the Degree of M.A. with Honours, the English paper being taken on Saturday, 31st March, at 10 A.M.

The subjects of examination are as follows:—

IN LATIN, GREEK, LOGIC, MORAL PHILOSOPHY, AND HISTORY.

¹ By Resolution of date December 13th, 1866, the Senate determined that "Residence" shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete winter session on not less than two of the classes in the curriculum for the Degree of Arts.

—The subjects of examination for the Degree of M.A. with Honours.

IN NATURAL PHILOSOPHY AND MATHEMATICS.—The subjects of examination for the Ordinary Degree of M.A., and higher subjects which any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the four groups, viz.: Classics, Mental Philosophy, Mathematics and Natural Philosophy, and History; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will be required to write an English Essay on a subject prescribed at the time. Candidates who do not offer Classics will be required to show such a knowledge of Latin and Greek as to prove their ability to pass Responsions at Oxford.

Exhibitioners—William K. Gillies, 1895; George S. Adams, 1896; Peter W. Monie, 1897; Samuel F. H. Mackay, 1898; Archibald Main, 1899.

THOMSON EXPERIMENTAL SCHOLARSHIPS.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson (now Lord Kelvin), LL.D., D.C.L., Professor of Natural Philosophy in the University, by letter to the Principal of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continual prosecution of Experimental Investigations in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholarship, or Fellowship.

Scholars for 1899-1900—Robert J. T. Bell, Alexander Wood.

3.—PRIZES.

Besides the class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public-spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1898-99 will be found in the Degree and Prize List.

INDEX.

FOUNDATION.	NATURE OF PRIZE.	AWARDED FOR
Arnott, - - - - -	£25 and £15,	Examinations.
Brunton Memorial, -	£10,	Do.
Buchanan (3), - - -	Books,	Do.
Cleland, - - - - -	Gold Medal,	Do.
Cleland & Rae Wilson,	Four Gold Medals,	Do.
Coulter, - - - - -	Two at £5 each,	Essays.
Cowan, - - - - -	Three Gold Medals,	Examinations.
Cunninghame, - - -	Gold Medal,	Do.
Dickson Prize, - - -	Books,	Do.
Dobbie-Smith, - - -	Gold Medal (biennial),	Essay.
Dowanhill, - - - -	£20 and £10,	Elocution.
Ewing, - - - - -	Gold Medal (biennial),	Essay.
Findlater, - - - - -	£38,	Examination.
Gartmore, - - - - -	Gold Medal (biennial),	Essay.
Gladstone Historical -	£21 (biennial),	Examination.
Harvey, George, - - -	£14,	Do.
Henderson, - - - - -	£21,	Essay.
Jamieson, - - - - -	£10,	Examination.
Jeffrey, - - - - -	Gold Medal,	Do.
Kirk Memorial, - - -	£12,	Do.
Logan, Thos., Memorial,	Gold Medal and £12,	Do.
Luke Historical, - - -	£9 (biennial),	Do.
Macfarlan and Cook, -	£21,	Do.
Macleod, - - - - -	Gold Medal,	Do.
Muirhead, - - - - -	Books,	Do.
Muirhead, G. Roger, -	£2 5s.,	Do.
Nichol Memorial, - - -	Books,	Do.
Reid, John, - - - - -	£25,	Original Research.
Ross, Robert (2), - - -	Med., books, or money.	Examinations.
Scott-Macfarlan, - - -	Gold Medal,	Examination.
University, - - - - -	Silver Medal,	Essay.
Walker (4), - - - - -	Books, etc.,	Examinations.

ARNOTT PRIZES.—Founded in 1869, by Dr. Neil Arnott of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the Medical students of the University.

By resolution of the Senate of date April 10, 1873, the following regulations were adopted:—

1. That there shall be two separate examinations—one in General

Physics, for students of the first and second years of their Medical studies; the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrine of General Physics to Physiological Science.

2. The knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant Clerk (Matriculation Office); and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 7th October, 1899, in the Examination Hall, at 2 p.m. Intending candidates to give in their names to the Assistant Clerk (Matriculation Office) on or before 20th September.

BRUNTON MEMORIAL PRIZE.—Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died on 16th November, 1876, of fever, contracted in the diligent discharge of his professional duties

in the Royal Infirmary of Paisley. The Committee of Subscribers paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

BUCHANAN PRIZES.—A Bursary was founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University during the long period of forty years. The fund consists of a sum of £314 raised by subscription. The Buchanan Bursaries having been founded under the Will of Professor Buchanan, the proceeds of this fund are now, with the sanction of the subscribers, applied to the purchase of books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

CLELAND AND RAE WILSON GOLD MEDALS.—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on a student of Divinity, and a student of Natural Philosophy, as a prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

Dr. William Rae Wilson of Kelvinbank, who died 2nd June, 1849, founded a Gold Medal to be bestowed upon the Divinity student who should produce the best Essay on the Life of Christ.

These foundations are now regulated by Ordinance No. 97 of the Universities Commission (1889). The Cleland Gold Medal, not exceeding ten guineas in value, is awarded to the most distinguished student in the class of Natural Philosophy in each year. The remainder of the free income of the Cleland Foundation is added to the total free income of the Rae Wilson Foundation, to provide four Gold Medals of equal value. These medals are awarded in each year as follows:—One to the most distinguished student in each of the classes of (1) Divinity, (2) Ecclesiastical History, (3) Hebrew and Semitic Languages, and (4) Divinity and Biblical Criticism. In the event of there being no student of sufficient distinction in any of these classes, the proportion of the income for that year may be applied towards the promotion of theological study in such manner as the Senate may decide.

COULTER PRIZES.—In 1787 Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, "the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing." The interest of this sum is now divided into Two Prizes of £5 each; the one to

be given in alternate years for a Sermon or Theological Essay, and for an Essay on Mental Philosophy and English Literature, the other to be given annually for a translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all matriculated students of the University.

COWAN GOLD MEDALS.—In 1836 Dr. Cowan of Sunderland presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of about £10 each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1839) the same gentleman presented the University with an additional sum of £105, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Blackstone Medals will be held early in November, 1899. Competitors to be eligible must be public students in some curriculum class in the Faculty of Arts.

For the Greek Medal—1. A candidate must have received a Certificate in the Greek Class for session 1898-99.

2. Every candidate will be required to answer a Preliminary Paper, consisting of unprepared passages for translation.

3. Two or more candidates, selected by this paper, will on a subsequent day be examined orally in the books which they offer.

4. Each selected candidate must offer for the Oral Examination (i.) one Verse Subject, (ii.) one Prose Subject. (i.) The Verse Subject must be *either* five books of Homer, *or* two Greek plays (tragedies or comedies). (ii.) The Prose Subject may be any *one* of the following :—(a) Herodotus—two books; (b) Thucydides—two books; (c) Plato—two dialogues, or two books of the *Republic*; (d) Aristotle—two books of the *Ethics*, of the *Politics*, or of the *Rhetoric*.

5. Any member of the Greek Class for session 1899-1900 is at liberty to go in for the Preliminary Paper, even though he is not a candidate for the Cowan Medal; and if he acquits himself with distinction in that paper, his name will be mentioned when the award of the Medal is announced.

For the Latin Medal, competitors must in the session preceding the competition have received a public ticket of the Latin Class.

Notice is hereby given, that at the examination for Dr. Cowan's Medals in November, 1892, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek, has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, having been admitted to the Senior Class in consequence of

having passed the preliminary examination in Latin, has attended for more than one session in any Scottish University.

CUNNINGHAME GOLD MEDAL.—In 1886 Mr. Andrew Cunningham, Town Clerk Depute of Glasgow, bequeathed to the University, *inter alia*, £350, free of legacy duty, with directions that the annual revenue thereof should be applied in purchasing a Gold Medal as a prize in the class of Mathematics.

DICKSON PRIZE.—In 1895, when Professor Dickson retired from the Chair of Divinity, his former students presented him with a testimonial consisting of silver plate and a cheque for £120. This sum was handed over by Dr. Dickson to the University Court, that the free annual income might be applied in the form of a prize of serviceable books to accompany the gold medal given to the most distinguished student of the year in the class of Divinity. In accordance with the wish of the subscribers the prize has been called the Dickson Prize.

DOBBIE-SMITH GOLD MEDAL.—In 1881 Mr. Thomas Smith, L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University, in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value, to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the session in which the Medal is to be awarded; the subject of competition—which shall always be a Botanical subject—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The next competition to be on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and each essay to be accompanied by an illustrative series of macroscopic and microscopic specimens. Essays to be given in to the Principal on or before 30th September, 1899.

DOWANHILL PRIZES.—Two prizes, one of £20, and the other of £10, for "Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures," founded in 1865 by Mr. John Buchanan, merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased brother, Mr. Thomas Buchanan, also merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to Students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.¹

¹ See note under Faculty of Theology, *supra*.

The above foundation is in memory of the late Mr. James Buchanan of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan of Stanley, Perthshire, the Father, Mother, and elder Brother of the Founder.

EWING GOLD MEDAL.—In 1828 James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

FINDLATER (DIVINITY) SCHOLARSHIP OR PRIZE.—This Scholarship, consisting of the free annual proceeds of the sum of £1,000 gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The following regulations have been adopted by the Senate :—

1. The Findlater Scholarship shall be awarded annually by competition.

2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.

The next competition will take place in October, 1899, and March, 1900. Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 18th October, 1899.

GARTMORE GOLD MEDAL.—In 1788 Mr. Robert Graham of Gartmore presented the University with £100 for the institution of a Prize for the best essay on any subject intimately connected with the nature, foundation, advantages, and support of political liberty. This Prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The founder directed that the surpluses should be accumulated till a capital was formed sufficient to found a Bursary.—See Gartmore Bursary, p. 257.

GLADSTONE HISTORICAL PRIZE.—Founded in 1880 by the Gladstone Club, in commemoration of the election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations :—

1. The prize shall be given for the best examination in English History.

2. The examination shall be held biennially.

3. The value of the Prize shall be Twenty Guineas.

4. The competition shall be open to Graduates of Glasgow University of not more than two years' standing from the date of their

first graduation. The eighth competition will take place in January, 1900. Names of competitors to be given in to the Assistant Clerk (Matriculation Office) not later than 1st December, 1899.

GEORGE HARVEY PRIZE.—Founded in 1874, by the liberality of a donor who has withheld his name, in memory of the late Mr. George Harvey of No. 9 Park Quadrant, Glasgow. Present annual value £14, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10 in the same department.

HENDERSON PRIZE.—In 1850 Mr. John Henderson of Park, merchant in Glasgow, instituted an annual prize of the value of £21 sterling, to be called the "Henderson Prize," for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath. The Universities Commission (1889), by Ordinance No. 101, altered the conditions and directions affecting this prize. It is now to be awarded for the best essay on a subject to be fixed by the Faculty of Divinity, provided always that in every third year at least, the subject shall relate to the Divine authority and practical value and influence of the Sabbath. The competition is to be open to Masters of Arts of not more than five years' standing, as well as to matriculated students of the University.

JAMIESON PRIZE.—In 1854 a subscription list was opened for the foundation of a prize or scholarship in Divinity, but the commercial difficulties of the following years prevented the purpose of the promoters being carried out at the time. In 1881 the sum subscribed, amounting, with accumulated interest, to £319 6s. 4d., was handed over to the University, and the Senate resolved to connect it with the name of the Convener of the Committee of subscribers, the Rev. Robert Jamieson, D.D., formerly minister of St. Paul's Church, Glasgow.

The following regulations have been adopted by the Senate:—

1. The Jamieson Prize shall be awarded annually by competition.
2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.
3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.
4. The Prize shall not be awarded to any one who has gained a Scholarship or Fellowship in Divinity.

The next competition will take place in October, 1899, and March, 1900. Names of candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 18th October, 1899.

JEFFREY GOLD MEDAL.—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey), on his re-election as Lord Rector of this University, in 1821, gave a prize of a Gold Medal and continued to do so annually.

In 1849 Lord Jeffrey presented the University with the sum of £120 for a Gold Medal to be awarded each session to the most distinguished student of the Greek Class.

KIRK MEMORIAL PRIZE.—A sum of £402 was collected in 1893 by various friends of the late Alexander Carnegie Kirk, LL.D., formerly President of the Institution of Engineers and Shipbuilders in Scotland, for the purpose of founding a prize in his name, in connection with the Naval Architecture Class in the University. The free annual income of the foundation is awarded annually as a prize. The competition is open to students who have, in the session of competition, attended the Senior Class of Naval Architecture, and who are completing the Final Science Examination under Ordinance No. 23, Glasgow No. 2, embracing (a) Naval Architecture with Marine Engineering, and (b) Practical Work in Ship and Marine Engineering Drawing, the award being determined by the proficiency shown in (a) and (b). Should two or more candidates be reported equal, the Senate may divide the Prize, or prescribe a further examination. The subscribers have given the Senate power to convert this Prize into a Bursary, should it be found expedient or advantageous to do so at any future time.

LIVINGSTONE GOLD MEDAL.—In 1897 Mr. Allan Wyon, Chief Engraver of Her Majesty's Seals, London, offered to present annually as a memorial of David Livingstone, LL.D., the missionary explorer in Africa, a Gold Medal, between £8 and £9 in value, to the matriculated student of either sex who should write the best essay on some subject connected with Christian Missions to the Heathen.

THOMAS LOGAN MEMORIAL MEDAL AND PRIZE.—Mr. David Logan, fruiterer, Glasgow, who died on 19th May, 1886, directed his trustees to pay to the Senate the sum of £500, free of legacy duty, to found a Gold Medal and Prize in memory of his brother, Thomas Logan. The Medal is of the value of £5, and the Prize consists of the balance of the annual proceeds given in money. They are awarded annually in November to the most distinguished graduate in Arts of the year.

LUKE HISTORICAL PRIZE.—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a prize in his name, in connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, re-

solved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient History and Literature. The examination to be conducted either altogether in writing, or by combination of writing and *vivâ voce* questions; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who acquits himself best in an examination in Ancient Greek and Roman History.

The next competition will be held in January, 1901. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during session 1899-1900 any Greek or Latin Class.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st December, 1900.

MACFARLAN AND COOK TESTIMONIAL PRIZE.—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D. of this University, and Professor George Cook, D.D. of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological Student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

MACLEOD MEDAL.—In 1895 Lady Macleod instituted this Gold Medal in memory of her husband, Sir George Husband Baird Macleod, M.D., LL.D., Regius Professor of Surgery in this University from 1869 to 1892. The competition is open only to those who have attended the classes of Systematic and Operative Surgery taught by the Regius Professor of Surgery in the University, and women students are not eligible. The Medal is awarded yearly to the student who most distinguishes himself in the work (written, oral, and practical) of these classes.

MUIRHEAD PRIZES.—In 1776 Messrs. John Muirhead of Teggetsheugh, and Peter Muirhead, minister of Dysart, brothers of the deceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in purchase of books to be awarded as prizes to those students attending the Humanity Class who shall be thought most deserving.

GEORGE ROGER MUIRHEAD PRIZE.—In 1896 a sum of £100 was bequeathed to the University by Mrs. Elizabeth Lockhart Roger or Muirhead, Glasgow, to found a prize in the Chemistry class in

memory of her son, George Roger Muirhead, who studied Chemistry in this University. The free annual income is paid annually to the medallist of the Chemistry class for the year.

NICHOL MEMORIAL PRIZE.—In 1895 Mrs. Jack presented the University with the sum of £150 for the purpose of founding a prize, to be called the “Nichol Memorial Prize,” in memory of her brother, John Nichol, LL.D., Professor of English Language and Literature in this University from 1862 till 1889, who died in London on 11th October, 1894, and especially in commemoration of the active interest which he took in the teaching of English Literature to women in Glasgow and elsewhere. The free income of the fund is applied annually to providing a first prize for the English Literature Class in Queen Margaret College.

RAE WILSON GOLD MEDAL.—(See Cleland and Rae Wilson, p. 323.)

JOHN REID PRIZE.—A Prize of the value of £25 was founded in 1882 by Miss Mary Reid, Renfrew Street, Glasgow, in memory of her brother, the late Mr. John Reid, surgeon, 150 Renfrew Street, Glasgow. The prize will be awarded for the best original research conducted in one of the Hospitals or Scientific Laboratories in Glasgow, bearing on any department of Medical Science. The competition is open to registered students of medicine of not less than two years standing; and to qualified medical men of not more than two years' standing, who (1) are still attached as *bonâ fide* students to one of the Glasgow Medical Schools, who (2) are not engaged in practice, and who (3) undertake to give up the prize if they enter on practice while holding it. All candidates are required to produce evidence of having attended a regular course of instruction, in one of the medical schools of Glasgow, on *four* of the following subjects:—Medicine, Clinical Medicine, Surgery, Clinical Surgery, Materia Medica, Physiology, Pathology—such course of instruction having been received, in whole or in part, within three years of competing for the prize. The prize may be awarded for one, two, or three years, according to the value of the work done.

Further information may be obtained from Mr. John Hurl, jun., writer, 157 St. Vincent Street, Glasgow.

ROBERT ROSS PRIZE.—The late Robert Ross, Esq., writer, Glasgow, by his Will, dated 1880, bequeathed to the Dean and Council of the Faculty of Procurators, Glasgow, the sum of £500, to be held by them in trust, “to the end that the free annual income thereof shall be applied as an annual prize in the form of a medal, of books, or of money, as the Dean and Council may determine, to a student in each of the Scots Law Class and the Conveyancing Class of the University of Glasgow in equal proportions, such prize to be awarded for eminence displayed, either in the general business of

the class or in any other manner in which the said Dean and Council may prescribe."

SCOTT-MACFARLAN GOLD MEDAL.—Founded in 1870 by Miss Scott, daughter of the late Rev. Robert Allan Scott, Vicar of Cranwell, Lincolnshire, in fulfilment of her father's intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Balliol College, Oxford, in 1825, dedicated to that purpose the sum of £100 for a Gold Medal, to be called the "Scott-Macfarlan Prize for Greek," in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on the last day of the session in each year to the best scholar in Greek of the session; the medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek Class, Miss Scott consented to give the "Scott-Macfarlan" Medal to the best student in the middle class.

UNIVERSITY MEDAL.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

WALKER PRIZES.—Four Prizes (consisting of Books or Instruments) to be competed for each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., F.R.SS.L. and E.

The competition is open to all persons who shall have duly entered themselves as attending the class of Civil Engineering and Mechanics during the current session.

The competitors are examined orally and in writing; and two of the prizes are awarded on the results of the written examinations; the other two by votes of the class.

WATT PRIZE.—In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study, to be taken in rotation:—
1. Any branch of Mechanics or its dependent Arts. 2. Statics, and the Machines and Arts dependent. 3. Pneumatics, Statical or Chemical, Machines and Arts. 4. Hydraulics, Hydrostatics, their Machines and Arts. 5. Chemistry, its Arts and Apparatus. All actual students who had completed, or who, at the end of the session in which the Prize fell to be awarded, should have completed a regular course of study in Languages and Philosophy, might be competitors. By Ordinance No. 93 of the Universities Commission (1889), issued on 15th February, 1895, and approved by Her Majesty in Council on 13th August, 1895, it is provided that the Watt Prize shall be discontinued, that the funds shall be allowed to accumulate for four years from the date of the Ordinance, and that thereafter a James Watt Scholarship in Engineering shall be established.

*LIST OF BURSARIES, &c., OPEN TO COMPETITION
DURING SESSION 1899-1900.*

A.—FACULTY OF ARTS.

1.—BURSARIES.

The following is a summary of the principal provisions of Ordinance No. 57¹ of the Universities Commission (1889) relating to the Bursary competition:—

The subjects of the examination for open Bursaries in Arts of the first year shall be the subjects prescribed for the Arts Preliminary, of which subjects candidates may select not more than five. Candidates who select Latin, Greek, or Mathematics, must take the papers of the higher standard in those subjects. In determining the marks to be assigned to the several subjects of examination, English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject, and no candidate shall be credited with marks in any subject in which he has not obtained such proportion of the total number of marks assigned to that subject as the Senate may from time to time prescribe.

No Candidate shall, except as hereinafter provided, obtain an open Bursary in Arts who shall not have passed the Preliminary Examination in Arts; provided that it shall be in the power of the Senate, with the approval of the University Court, to admit to an open Bursary in Arts a Candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the second Preliminary Examination after the date of his admission as Bursar.

No student who has during a winter or summer session attended in any Scottish University any class qualifying in his case for graduation in Arts or Science, shall be eligible to compete for Bursaries of the first year in Arts or Science.

Candidates for Bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts, and no Bursary shall, except as hereinafter provided, be awarded to any Candidate who shall not have passed the Preliminary Examination in Arts: provided that it shall be in the

¹The full text of this ordinance is printed at pp. 231—235.

power of the Senate, with the approval of the University Court, to admit to a Bursary in Arts not awarded by open competition a Candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as Bursar.

N.B.—For the Bursaries open to women students see pp. 235—239.

FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

1. *Buchanan Bursary*, annual value £13, tenable for three years—open.
- 2 and 3. *Two Forfur Bursaries*, annual value £36 each, tenable for four years—open.
4. *General Council Bursary*, annual value £20, tenable for three years—open.
5. *Loyden Bursary*, annual value £13, tenable for three years—open.
6. *M'Grouther Bursary*, annual value £20, tenable for four years—open.
7. *M'Grouther Bursary*, annual value £15, tenable for four years—open.
8. *Scott Bursary*, annual value £25, tenable for four years—open.
9. *Stewart Bursary*, annual value £15, tenable for four years—open.
10. *Taylor Bursary*, annual value £7, tenable for four years—open.
11. *King William's Bursary*, annual value £15, tenable for three years—open.
- 12, 13, 14, 15, 16, and 17. *Six John Clark (Mile-End) Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons of Protestant parents.
18. *Barbour Kilbarchan Bursary*, annual value about £18, tenable for three years, open only to candidates not exceeding 18 years of age from Kilbarchan Public School.
19. *Biggart Memorial Bursary*, annual value £25 each, tenable for four years, for students preparing for the Ministry of the United Presbyterian Church.
20. *Brand Bursary*, annual value £22, tenable for four years, for students preparing for the Ministry of the United Presbyterian Church.
21. *Browne (Ayrshire) Bursary*, annual value about £20, tenable for four years, for natives of Ayrshire, or those who have been educated for not less than four years in a school in Ayrshire.
22. *Archibald Craig Bursary*, annual value £9, tenable for two years, for students who are natives of Eaglesham or Mearns, or who for two consecutive years have attended school in either of these parishes.
23. *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. [Tenable in any Faculty.]
24. *Duncan's Bute Bursary*, annual value £32, tenable for four years, for students who are natives of Bute.
25. *James Ewing Entrance Bursary*, annual value £20, tenable for four years, for sons of Glasgow merchants. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

26, 27, and 28. *Three Fullarton of Overton Bursaries*, annual value £22 each, tenable for two years, for students under 25 years of age, from the district of Cunninghame, in Ayrshire. Subjects for Examination—Latin, Elementary Mathematics, and English.

29. *Hamilton Educational Trust Bursary*, annual value £15, tenable for three years, open to pupils attending public or State-aided schools in the burgh and Parish of Hamilton. Apply to Mr. Patrick Keith, Writer, Hamilton, before the first day of September.

30. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September.

31 and 32. *Two Glasgow Highland Society's Bursaries*, annual value £20 each, tenable for four years, for students of Highland descent. Apply to Mr. R. Hope Robertson, 58 St. Vincent Street, before the first day of September.

33, 34, and 35. *Three Glasgow City Educational Endowments Bursaries*, annual value £25 each, tenable for four years, for students from public or State-aided schools in Glasgow. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

36, 37, 38, 39, and 40. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended for at least two years immediately preceding the competition, and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

41. *Alexander Laing Bursary*, annual value £20, tenable for three years, with preference *ceteris paribus* to natives of Brechin.

42 and 43. *Two James Laing Bursaries*, annual value £25 each, tenable for four years, for students of either sex who have been educated for at least three years in a school or schools in Stirlingshire. Apply to Mr. William Jenkins, Writer, Denny, before the first day of September.

44. *Lochhead and Mitchell Bursary*, annual value £33, tenable for four years. Preference to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland.

45, 46, 47, and 48. *Four Marshall Trust Bursaries*, annual value £30 each, tenable for five years, for students of either sex from public or State-aided schools in Lanarkshire or Stirlingshire. Apply to Mr. Wm. Mitchell, 134 Wellington Street, Glasgow, before the first day of September.

49. *Patrick Bursary*, annual value £24, tenable for four years, for students from Renfrewshire.

50. *Pollock Bursary*, annual value £40, tenable for three years. Preference to candidates educated in Paisley.

51. *Ramsay Walker Bursary*, annual value £12, tenable for four years, for students preparing for the Ministry of the Church of Scotland. Preference to kin of Founder; whom failing, to students of the name of Walker; whom failing, to natives of Glasgow.

52. *William Whyte Bursary*, annual value £25, tenable for four years, open to students who have attended and completed the curriculum in the Secondary Department of Hutchesons' Grammar School. Apply to Messrs. Hill & Hoggan, 194 Ingram Street, on or before the first day of September. [Tenable also in Law or Medicine.]

FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 2, 3, 4, 5, 8, 9, 10, 20, 24, 26, 27, 28, 42, 43 in the preceding list.

53. *Park General Council*, annual value £20, tenable for two years—open.

54 and 55. *Two James A. Paterson Bursaries*, annual value £40 and £20 respectively, tenable for three years, for students preparing for the Ministry of the United Presbyterian Church. The subjects of examination are Greek and Hebrew, as detailed at page 285.

56 and 57. *Two Lorimer Bursaries*, annual value £19 each, tenable for three years. The examination will take place along with the Arts Preliminary Examination in Mathematics, but may embrace higher papers.

58 and 59. *Two Lorimer Bursaries*, annual value £19 each, tenable for three years. Subjects of examination—1. *Logic*: (a) Descartes, *Meditations* (Veitch's translation); (b) Ferrier, *Lectures on Greek Philosophy*, the Pre-Socratic period. 2. *English Literature*: (a) Shakespeare's *As You Like It*; (b) Tennyson's *Idylls of the King*.

60. *John Ferguson Jaffrey Bursary*, annual value £34, tenable for two years. The subjects of examination are the same as for the Lorimer Bursaries, Nos. 58 and 59.

FOR STUDENTS IN ARTS WITHOUT RESTRICTION TO A PARTICULAR SESSION.

61. *Monteith Bursary*, annual value about £14, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Examination in French.

62. *Malcolm Kerr Bursary*, annual value £19, tenable for three years. The subjects of examination are in Chemistry, and are those for the Final Science Examination for B.Sc.

63. *Muir Junior Bursary in Mathematics*, annual value £10, tenable for sessions 1900-1, 1901-2. The appointment will be determined by the results of the written examinations passed in the course of the session 1899-1900 by the public students of the Second Class of Mathematics.

64. *Muir Senior Bursary in Mathematics*, annual value £20, tenable for session 1900-1. The appointment will be determined by the results of the written examinations passed in the course of the session 1899-1900 by the public students of the Intermediate Honours Mathematical Class.

65. *Malcolm Kerr Bursary*, annual value £19, tenable for three years. The subjects of examination are in Natural Philosophy, and are the same as for honours for the degree of M.A.

66. *James Ferguson Bursary*, annual value £85, tenable for two years. Preference, *ceteris paribus*, to natives of Lesmahagow or Muirkirk, or Pictou, Nova Scotia, and also to students of the name Ferguson or Weir, or to the kin of the Founder. The examination is the same as that for Honours in Mental Philosophy, with a paper on English Literature.

2.—FELLOWSHIPS, SCHOLARSHIPS, ETC.

67. *William Ewing Fellowship in Classics*, annual value £100, tenable for four years. Open to Glasgow Masters of Arts.

68. *John Clark (Mile-End) Scholarship in Classics*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

69. *Eglinton Fellowship in Mental Philosophy*, annual value £100, tenable for three years. Open to Glasgow Masters of Arts.

70. *Armagh Bursary in Mental Philosophy*, annual value £45, tenable for three years in Theology, Law, or Medicine. Open to students who are presenting themselves for the final examination for the degree of M.A. with Honours in Mental Philosophy.

71. *George A. Clark Scholarship in Mathematics and Natural Philosophy*, annual value about £170, tenable for four years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the M.A. degree with Honours in Mathematics and Natural Philosophy, but no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. degree or the B.Sc. degree.

72. *Metcalf Fellowship*, annual value £100, tenable for three years. Open to Glasgow Masters of Arts with Honours in Mathematics and Natural Philosophy of not more than three years' standing.

73. *John Clark (Mile-End) Scholarship in English*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

74. *John Clark (Mile-End) Scholarship in History*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

75. *Reid Stewart Fellowship*, annual value about £48, tenable for three years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the M.A. degree with Honours in History or Economic Science. See p. 314.

76. *Snell Exhibition*, annual value about £133, tenable for three years. Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

77. *Sandford Scholarship*, annual value £20, tenable for two years. Open to all matriculated students (not Masters of Arts) who have attended the Public Greek Classes for not less than two sessions.

78. *Gladstone Historical Prize* of £21, open to graduates of Glasgow University of not more than two years' standing from the date of their first graduation.

79. *Thomas Logan Memorial Medal and Prize* of £12 will be awarded in November to the most distinguished graduate in Arts of the year.

DATES OF EXAMINATIONS.

The examinations for Bursaries Nos. 1 to 53 in the above list will commence on Friday, 29th September, at 2 p.m. The examination papers will be given in the following order, viz. :—

On Friday,	29th September,	2— 5 p.m., Italian.
On Saturday,	30th "	9—11 a.m., English (1st paper).
"	" "	12— 2 p.m., English (2nd paper).
"	" "	3— 6 p.m., Lower Greek.
On Monday,	2nd October	9—12 noon, Lower Latin.
"	" "	2— 5 p.m., Lower Mathematics.
On Tuesday,	3rd "	9—11 a.m., Higher Latin (1st paper).
"	" "	12— 2 p.m., Higher Latin (2nd paper).
"	" "	3— 4.30 p.m., French (1st paper).

On Wednesday,	4th	October	9—11 a.m., Higher Greek (1st paper).
"	"	"	12— 2 p.m., Higher Greek (2nd paper).
"	"	"	3— 4.30 p.m., German (1st paper).
On Thursday,	5th	"	9—11 a.m., Intermediate and Higher Mathematics (1st paper).
"	"	"	12— 2 p.m., Do. (2nd paper).
"	"	"	3— 5 p.m., French (2nd paper).
On Friday,	6th	"	9—11 a.m., German (2nd paper).
"	"	"	1— 4 p.m., Dynamics.
On Saturday,	7th	"	9—11 a.m., Mathematics (additional paper).

The examination for Bursaries Nos. 54 and 55 will be held on Tuesday, 24th Oct., at 10 a.m., and Wednesday, 25th Oct., at 2 p.m.; for Bursaries Nos. 56 and 57, on Thursday, 5th Oct., at 9 a.m. and 12 noon, and Saturday, 7th October, at 9 a.m.; for Bursaries Nos. 58, 59, and 60, on Wednesday, 11th October, at 10 a.m., and on Friday, 13th October, at 10 a.m.; for Bursary No. 61, on Tuesday, 3rd October, at 3 p.m., and Thursday, 5th October, at 3 p.m.; and for Bursary No. 62, on Monday, 2nd October, at 3 p.m.

The examinations for the Bursaries, Scholarships, and Fellowships Nos. 65 to 75 inclusive, in the above list, will be held along with the examinations for Honours in the several departments for the Degree of M.A. in October, 1899; for No. 76, along with the examinations for Honours in March and April, 1900, the English paper being taken on Saturday, 31st March, at 10 a.m.; for No. 77, in the month of April, 1900; and for the Prize No. 78 in January, 1900.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 57 inclusive and No. 61 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Monday, 11th September; for Bursaries Nos. 58 to 60 inclusive, not later than Wednesday, 20th September; and for Bursary No. 62, not later than Thursday, 14th September. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant Clerk (Matriculation Office). Candidates for the Bursary No. 25 must, besides, give in their names to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September; for No. 29, to Mr. Patrick Keith, Writer, Hamilton, before the first day of September; for No. 30, to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September; for Nos. 31 and 32 to Mr. R. Hope Robertson, 58 St. Vincent Street, before the first day of September; for Nos. 33 to 40, to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September; for Nos. 42 and 43 to Mr. William Jenkins, Writer, Denny, before the first day of September; for Nos. 45 to 48, to Mr. William Mitchell, 134 Wellington Street, before the first day of September; and for No. 52, to Messrs. Hill & Hoggan, 194 Ingram Street, before the first day of September.

Candidates for the Fellowships, etc., Nos. 65 to 75 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 20th September; for No. 76, candidates are expected to inscribe their names in a book kept at the Clerk of Senate's office for the purpose, not later than the 1st December, 1899; for No. 77, candidates are required to send their names to the Assistant Clerk (Matriculation Office), on 6th March, 1900; and for No. 78 before 1st December, 1899.

B.—FACULTY OF SCIENCE.

Open to Competition during Session 1899-1900.

1 and 2. *Two Strang Bursaries*, annual value £20, tenable for three years. Open to students of Engineering Science.

3. *Shipwrights' Company's Bursary*, value £25, tenable for one year, for students of Naval Architecture.

4 and 5. *Two Lorimer Bursaries in Mathematics*—see Nos. 56 and 57 under Faculty of Arts.

6. *Malcolm Kerr Bursary* in Chemistry—see No. 62 under Faculty of Arts.

7. *Malcolm Kerr Bursary* in Natural Philosophy—see No. 65 under Faculty of Arts.

8 and 9. *Two Metcalfe Bursaries*, each of annual value £25, tenable for two years. Open to students entering the class of Chemistry or of Intermediate Honours Mathematics.

10. *Lloyd's Register Scholarship*, annual value £50, tenable for three years. Open to candidates intending to become students of Naval Architecture, whose age does not exceed 23 years.

11 and 12. *Muir Bursaries in Mathematics*—see Nos. 63 and 64 under Faculty of Arts.

13 and 14. *Muir Bursaries in Civil Engineering and Mechanics*, each of annual value £12 10s., tenable for session 1900-1.

15. *George Young Bursary*, annual value £33, tenable for one year, for students in the class of Civil Engineering. To be awarded in April, 1900, to the eligible candidate with the best record in the First Science Examination.

The examinations for the Bursaries Nos. 1 to 3 inclusive will be held at the same time as the Arts and Science Preliminary Examinations in September and October, 1899; for Nos. 4 and 5, on Thursday, 5th October, at 9 a.m. and 12 noon, and Saturday, 7th October, at 9 a.m.; for No. 6, on Monday, 2nd October, at 3 p.m.; for No. 7, on Saturday, 7th October, at 10 a.m.; and for Nos. 8 to 10, on Friday, 6th October, and Saturday, 7th October, at 10 a.m. on each day.

Names of Competitors to be given in to the Assistant Clerk (Matriculation Office), for Nos. 1 to 5 on 11th September, for No. 6 on 14th September, for Nos. 7 to 10 on 20th September, and for Nos. 13 to 15 on 8th March, 1900.

For the 1851 Exhibition Science Scholarships, the Dobbie Smith Gold Medal, George Harvey Prize, Kirk Memorial Prize, the G. R. Muirhead Prize, and the Walker Prizes, see pages 307, 325, 327, 328, 329, 331, respectively.

C.—FACULTY OF MEDICINE.

1. *Mackintosh Bursary*, annual value about £31, tenable for one year. Open to medical students of either sex who have attended the Lectures on Insanity.

2 and 3. *Two Glasgow Highland Society Bursaries*, each of annual value of £25, tenable for four years, for students of Highland descent. Apply to Mr. R. Hope Robertson, 58 St. Vincent Street, before 1st September.

4. *Merchants' House Bursary*, annual value £25, tenable for four years, open to students entering on their first winter session of medical study. Apply to W. H. Hill, Esq., LL.D., Merchants' House, 7 West George Street, on or before 1st September, 1899.

5 and 6. *Two Lorimer Bursaries*, annual value £19 each, tenable for three years. Open to medical students entering on their second winter session.

7. *Rainy Bursary*, annual value £20, tenable for two years. Open to students entering on their third session of medical study.

8. *John Macfarlane Bursary*, annual value about £40, tenable for three years. Open to medical students entering on their second winter session.

9 and 10. *Two James A. Paterson Bursaries*, annual value £30 and £15 respectively, tenable for four years. Open to students entering on their second session of medical study. Examination in Mathematics and Natural Philosophy.

11. *Dr. Thomas Gibson Bursary*, annual value about £30, tenable for four years. Open to medical students entering on their second winter session who are preparing for service as medical missionaries. It will be awarded to the eligible candidate who has gained the highest number of marks in the First Professional Examination. See p. 258.

12. *John Monteith Bursary*, annual value about £21, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in March and October, 1899.

13. *Andrew Weir Bursary*, annual value £16 10s., tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

14. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

15. *Senior Arnott Prize*, of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

16. *Brunton Memorial Prize*, of about £10, is given to the most distinguished graduate in Medicine of the year.

For the *William Whyte*, the *Armagh*, and the *James Ferguson Bursary*, also tenable by students of Medicine, see Nos. 52, 70, and 66, under Faculty of Arts.

DATES OF EXAMINATIONS.

The examinations for the Bursary No. 1 in the above list will be held in June; for Nos. 2 to 4, at the same time as the Medical Preliminary; for Nos. 5 to 7, on Monday and Tuesday, 2nd and 3rd October, at 10 a.m. each day; for No. 8, on Monday, 2nd October, at 12.30 p.m. and 3 p.m., and on Tuesday, 3rd October, at 10 a.m.; for Nos. 9 and 10, on Friday and Saturday, 6th and 7th October, at 10 a.m. each day; and for the Prizes Nos. 14 and 15, on Saturday, 7th October, at 2 p.m.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursary No. 1 are required to give in their names to the Assistant Clerk, Matriculation Office, not later than 1st June; for Bursaries Nos. 2 to 11, not later than 11th September; and for Prizes 14 and 15, not later than 20th September.

D.—FACULTY OF LAW.

1. *Merchants' House Bursary*, annual value £25, tenable for three years. Open to students of the first year in Law. Apply to W. H. Hill, Esq., LL.D., Merchants' House, 7 West George Street, on or before 1st September, 1899.

2. *Andrew Cunningham Scholarship*, annual value about £34, tenable for two years, will be awarded in November, 1899, to the most distinguished Bachelor of Laws of the year, special consideration being given to eminence in Scots Law.

For the *William Whyte*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Law, see Nos. 52, 70, and 66 under Faculty of Arts.

E.—FACULTY OF THEOLOGY.

Open to Competition during Session 1899-1900.

1. *Black Bursary*, annual value £42, tenable for three years. Open to students of Theology of the first year, qualified as specified at page 243.

2 and 3. *Two Brown or Ettles Bursaries*, annual value £25 each, tenable for three years. Open to students of Theology of the first year who have passed all the examinations for graduation in Arts, with a preference, *ceteris paribus*, to such as can speak Gaelic.

4. *Logan Bursary*, annual value £16, tenable for three years. Open to competition to students who are entering upon their first year in Divinity.

5. and 6. *Two Lorimer Bursaries*, annual value £19 each, tenable for three years. Open to students entering the Divinity Hall.

7. *Lumsden Bursary*, annual value £15, tenable for four years. Open to students of Divinity of the first year, with a preference to the sons of members, or of deceased members, of the Stationers' Company of Glasgow.

8. *Notman Bursary*, annual value £18, tenable in the Divinity course.

9. *John Ross, Junr., Bursary*, annual value £30, tenable for three years. Open to students of Divinity of the first year preparing for the ministry of the Church of Scotland.

10. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, not later than 21st October.

11. *King William's Bursary*, annual value £20, tenable for three years. Open to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first year of attendance on a course of study in the University for graduation in Divinity.

12. *Black Theological Fellowship*, annual value £147 or thereby, tenable for one year. Open to Masters of Arts from any of the Universities of Scotland who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1900.

13. *The Findlater Scholarship Prize*, value about £38 sterling, for examination in the subjects for the degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1900.

14. *The Jamieson Prize*, value about £10 sterling, for examination in the subjects for the Degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1900.

15. *The Macfarlan and Cook Testimonial Prize*, of £21, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

16 and 17. *Dowanhill Prizes*, one of £20, and the other of £10, for Elocution. Open to students of Divinity of the third year.

For the *Armagh* and the *James Ferguson Bursaries*, also tenable by students of Divinity, see Nos. 70 and 66 under Faculty of Arts.

DATES OF EXAMINATIONS.

The examinations for Nos. 1 to 11 inclusive, in the above list, will be held on Tuesday, 24th October, and Wednesday, 25th October, at 10 a.m. each day; and for Nos. 12 to 14 on Tuesday, 24th October, Wednesday, 25th October, Thursday, 29th March, and Friday, 30th March, at 10 a.m. each day.

SUBJECTS OF EXAMINATION.

Candidates for Bursaries Nos. 1 to 11 inclusive may select any seven out of the nine subjects in the following list:—

LATIN.—Livy, Book XXI.; Translation from English into Latin.

GREEK.—The Epistles to Timothy.

LOGIC.—Jevons, *Elementary Lessons in Logic*.

MORAL PHILOSOPHY.—Muirhead, *Elements of Ethics*.

MATHEMATICS.—Euclid, Books I., II., III. Algebra, to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—Deschanel, *Physics*, Part I.

ENGLISH.—Morley, *First Sketch of English Literature*, Chapter VII. A short essay will be prescribed.

HEBREW.—Book of Genesis.

HISTORY.—European History in the Sixteenth Century.

The subjects of examination for Nos. 12, 13, 14, are the same as for the Degree of Bachelor of Divinity.

The subjects of examination for the Prize No. 15 for Session 1899-1900 are as follows:—

GREEK.—Epistles to the Thessalonians.

DIVINITY.—Biblical Theology.—The Epistle to the Hebrews.

HEBREW.—Isaiah xl.-lxvi.

CHURCH HISTORY.—Ante-Nicene Period.

MORAL PHILOSOPHY.—Butler, *Three Sermons on Human Nature*.

DATES FOR SENDING IN APPLICATIONS.

Candidates for Nos. 1 to 14 inclusive are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 18th October, 1899; for the Prize No. 15 to the Professor of Divinity, not later than 1st November, 1899; and for the Prizes Nos. 16 and 17, to the Professor of Divinity, not later than 16th March, 1900.

5.—*PATRONAGE BURSARIES*, 1899-1900.

A.—FACULTY OF ARTS.

Appointments to the following Bursaries in the gift of Patrons, including bodies corporate and not corporate, fall to be made before the opening of session 1899-1900. Candidates are required to present themselves for the Arts Preliminary Examinations, and for this purpose their names must be given in to the Assistant Clerk, Matriculation Office, on or before 11th September.

1 and 2. *Two Dundonald Bursaries*, see page 252.

3. *Hamilton Bursary*, see page 261.

4. *Lamb Bursary*, see page 268.

5. *Williams Bursary*, see page 296.

B.—FACULTY OF MEDICINE.

Thomas Hutcheson Bursary, see page 265.

C.—FACULTY OF LAW.

Thomas Hutcheson Bursary, see page 265.

D.—FACULTY OF THEOLOGY.

1. *Boyd and Sanders Bursary*, see page 244.

2. *Boyd and Wilson Bursary*, see p. 244.

3 and 4. *Two Dundonald Bursaries*, see page 252.

5. *Gilhagie and Struthers Bursary*, see page 259.

6. *Hamilton Bursary*, see page 261.

7. *Thomas Hutcheson Bursary*, see p. 265.

8. *Lamb Bursary*, see page 268.

9. *Leighton Bursary*, see page 269.

6.—*UNIVERSITY PRIZE ESSAYS*.

FOR SESSION 1899-1900.

1. In Mental Philosophy, the UNIVERSITY SILVER MEDAL, for the best critical essay on "The Application of Biological Notions and Methods to Ethics." All students of the classes of Logic, Moral Philosophy, or English Literature, in session 1898-99 or 1899-1900, may be competitors.

2. The GARTMORE GOLD MEDAL, for the best essay on "The Advantages and Disadvantages of Hereditary Monarchy." All Matriculated Students of the University in session 1899-1900 may be competitors. The successful candidate will be required to furnish a second copy of the essay.

3. A COULTER PRIZE OF FIVE POUNDS, for the best essay on "The Social Philosophy of Thomas Carlyle."

4. A COULTER PRIZE OF FIVE POUNDS, for the best Latin essay on the following subject: "Roman and British Imperialism."

For the Coulter Prizes all matriculated students of the University in session 1899-1900 may be competitors.

5. The HENDERSON PRIZE OF TWENTY GUINEAS, for the best essay on "The Theology of Ritschl in its fundamental positions and its relation to the Theology of the Reformed Church." All matriculated students of the University in session 1899-1900, and all Masters of Arts who graduated in November, 1894, or thereafter, may be competitors.

6. The LIVINGSTONE GOLD MEDAL, for the best essay on "The Influence of Livingstone's Work on Christian Missions in Africa." All matriculated students of session 1899-1900 may be competitors.

7. The DOBBIE-SMITH GOLD MEDAL, for the best essay on any subject within the limits of the science of Botany. The treatment of the subject to show original work, and the essay to be accompanied by an illustrative series of macroscopic and microscopic specimens. All matriculated students of session 1898-99 may be competitors, and essays must be given in on or before 30th September, 1899.

The essays, with the exception noted above (No. 7), must be given in to the Principal on or before Friday, 27th October, 1899, after which day none can be received. The essays must be neatly bound, and each must be distinguished by two mottoes, and accompanied by a sealed letter bearing on the outside the same mottoes, and containing a declaration subscribed by the author that the essay is entirely of his own composition. All quotations in the essays must be carefully marked and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the prize for any subject, if none of the essays on that subject reaches a sufficiently high standard of merit.

EWING GOLD MEDAL IN SESSION 1900-1.

The subject for the essay in the competition for the Ewing Gold Medal, open to matriculated students in session 1900-1, will be—"James I. of Scotland."

PRIZES OFFERED BY THE FRANCO-SCOTTISH SOCIETY.

I. By the French branch of the Society:—

A.—The Linguistic Society of Paris offers a prize of 1000 francs in 1901, for the best *printed* work on the Grammar, Vocabulary, History, and Origin of the Romance Languages in General, but in particular on that of the Roumanian Language.

This *Prize A* must be in French, Roumanian, or Latin, and must not have been published prior to 31st December, 1894. Authors may belong to any nationality, and are required to send to the President of the Linguistic Society of Paris two copies of their work not later than 31st December, 1900.

II. By the Scottish branch of the Society:—

A. Five pounds for the best essay (in French for preference) on "The assistance rendered by Scotland to Joan of Arc." Essay to be lodged with Mr. A. A. Gordon, C.A., Honorary Secretary to the Society, 128A George Street, Edinburgh, before 30th December, 1899.

B. Expense (including residence, class fees, etc.) of sending a deserving Scottish student to Paris to attend the short summer course at the Sorbonne or elsewhere. This prize is offered by a member of the Society, and is awarded by the Education Committee of the Council of the Scottish branch of the Society without examination, and is intended for students not possessing means of their own for the purpose in view. Applications (stating university, age, qualification, and purpose, and giving two references) to be sent to Mr. Gordon before 31st March, 1899.

Prize A is open to male students (of Scottish parentage) of the Scottish Universities only.

Prize B is to be continuous at the pleasure of the donor, and is open to Scottish students only. The choosing of the yearly recipient rests with the Education Committee of the Scottish Council, in the latter of which all the Scottish Universities are represented.

X.—HONOURS LIST.

NAMES OF GRADUATES WITH HONOURS SINCE THE YEAR 1827.

BACHELORS OF ARTS (B.A.).

			Honourable Distinction.	Highest Distinction.
1827	¹ Alfred Day, . . . England,	. . . . .	{ Classics.	{ Classics.
			{ Mental Philosophy.	{ Mental Philosophy.
1831	James Halley, . . . Scotland,	. . . . .	{ Classics.	{ Classics.
			{ Mental Philosophy.	{ Mental Philosophy.
1838	William Makellar, . . . „	Classics.		
„	Francis Tucker, . . . England,	Classics.		
1840	¹ John Daniel Morell, . . . „	{ Classics.		
		{ Mental Philosophy.		
1842	¹ Nathaniel Haycroft, . . . „	{ Classics.		
		{ Mental Philosophy.		
1843	¹ David M'Lauchlan, . . . Scotland,	{ Classics.		
		{ Mental Philosophy.		
1852	Samuel Crusha Sarjant, England,	. . . . .	{ Classics.	{ Classics.
			{ Mental Philosophy.	{ Mental Philosophy.
1856	¹ Joseph David Everett, . . . „	{ Classics.		
		{ Mental Philosophy.		
„	David Johnston, . . . „	Mental Philosophy.		
1857	Wm. Thomson Johnston, Scotland,	. . . . .	Classics.	Classics.
„	Andrew Moody, . . . „	Mental Philosophy.		
„	¹ William Ralph Pattison, . . . „	{ Classics.		
		{ Mental Philosophy.		
1858	John MacLeod, . . . „	. . . . .	Mental Philosophy.	Mental Philosophy.
„	² Peter Sinclair Menzies, . . . „	Classics.		
1859	¹ George Porter, . . . „	{ Classics.		
		{ Mental Philosophy.		
„	¹ Joseph Gardner, . . . „	Mental Philosophy.		
1860	¹ Richard Vary Campbell, . . . „	. . . . .	Mental Philosophy.	Mental Philosophy.
„	¹ Daniel Munro, . . . „	Classics.		
1861	¹ John M'Lean, . . . „	{ Classics.		
		{ Mental Philosophy.		
„	¹ Thomas Carruthers, . . . „	{ Classics.		
		{ Mental Philosophy.		
„	¹ William Stewart, . . . „	{ Classics.		
		{ Mental Philosophy.		
„	³ David Thomas, . . . „	Mental Philosophy.		
„	¹ George Matheson, . . . „	Mental Philosophy.		
„	¹ Henry William Bell, . . . India,	Mental Philosophy.		
„	¹ Thomas Robinson, . . . England,	Mental Philosophy.		

¹ Graduated M.A. in the following year. ² Graduated M.A. three years later.³ Graduated M.A. two years later.

MASTERS OF ARTS (M.A.).

		Honourable Distinction.	Highest Distinction.
1827	George Samuel Evans, . England,	. . . .	{ Classics. { Mental Philosophy.
"	William Cooper, . . Scotland,	{ Classics. { Mental Philosophy.	
1828	William Acworth, . England,	. . . .	{ Classics. { Mental Philosophy.
"	Samuel Macurdy Greer, Ireland,	. . . .	{ Classics. { Mental Philosophy.
"	James Rankine, . . Scotland,	{ Classics. { Mental Philosophy.	
"	William Baird, . . "	{ Classics. { Mental Philosophy.	
"	John Reid, . . England,	Physical Science.	
"	Alexander Ure, . . Scotland,	Physical Science.	
1831	David L. Arnot, . . "	. . . .	Classics.
"	John Jenkins, . . Wales,	Classics.	
"	Robert Cotton Mather, . England,	Classics.	
"	Neil M'Michael, . . Scotland,	Physical Science.	
1832	Andrew Borland Parker, "	. . . .	Classics.
1836	John Cunningham, . . "	. . . .	Physical Science.
"	William Fulton, . . "	{ Classics. { Mental Philosophy.	
1837	Richard Shaen, . . England,	Physical Science.	
"	Thomas Elliot Richardson, "	Physical Science.	
"	John Blair, . . Ireland,	Physical Science.	
"	William Cuthell, . . Scotland,	Physical Science.	
1840	Duncan Harkness Weir, "	Physical Science.	
"	James Thomson, . . Ireland,	Physical Science.	
"	John Buchanan, . . Scotland,	Physical Science.	
1841	William Arthur Jones, Wales,	{ Classics. { Mental Philosophy.	
1842	Alexander Grierson, . Scotland,	Physical Science.	
"	John Davies, . . England,	{ Classics. { Mental Philosophy.	
1843	John Trafford, . . "	{ Classics. { Mental Philosophy.	
"	David Duff, . . Scotland,	Physical Science.	
1844	John Morgan, . . "	Physical Science.	
"	John Thomson, . . Ireland,	Physical Science.	
"	William Turnbull Ker, . Scotland,	Physical Science.	
"	Richard Tomlinson, . England,	{ Classics. { Mental Philosophy.	
1846	Robert Graham, . . Scotland,	Physical Science.	
1847	William John Steele, . Ireland,	Physical Science.	
"	James Porter, . . "	Physical Science.	
1848	Adam Milroy, . . Scotland,	{ Classics. { Mental Philosophy.	
"	Walter David Jeremy, . England,	{ Classics. { Mental Philosophy.	

		Honourable Distinction.	Highest Distinction.
1849	John Kerr, . . . Scotland,	. . . . .	Physical Science.
"	George M'Queen, . . . "	. . . . .	Physical Science.
"	Henry Martyn Barker, . England,	. . . . .	{ Classics.
"	John Newton Langley, . . . "	. . . . .	{ Mental Philosophy.
			{ Classics.
			{ Mental Philosophy.
1850	Alexander Walker, . . Scotland,	{ Classics.	
		{ Mental Philosophy.	
"	Horatio Lindsay Taplin, England,	{ Classics.	
"		{ Mental Philosophy.	
"	Robert Masters Theobald, . . . "	{ Classics.	
		{ Mental Philosophy.	
1851	Carstairs Douglas, . . Scotland,	Physical Science.	
"	Daniel Davies Jeremy, . . England,	{ Classics.	
		{ Mental Philosophy.	
1852	Thomas Logan, . . . Scotland,	Physical Science.	
"	James Wylie Johnston, . . . "	{ Classics.	
		{ Mental Philosophy.	
1853	Charles Abercromby Smith, . . . "	. . . . .	Physical Science.
"	William Jack, . . . . .	. . . . .	Physical Science.
"	Edward John Gibbs, . . England,	. . . . .	{ Classics.
			{ Mental Philosophy.
1856	James Galbraith, . . . Scotland,	Physical Science.	
"	John Murray,	Physical Science.	
1857	Joseph David Everett, . . England,	. . . . .	Physical Science.
"	George Monro Grant, Nova Scotia,	. . . . .	Mental Philosophy.
"	David Herbert,	Mental Philosophy.	
"		{ Classics.	
"	Neil Macpherson,	{ Mental Philosophy.	
1858	John Weir,	Mental Philosophy.	
1859	Robert Whyte,	Mental Philosophy.	
1860	Walter Roberts,	Mental Philosophy.	

MASTERS OF ARTS (M.A.).

Ordinances No. 14, Sections vi., vii., viii. ; No. 18, Section iii. (1858).

		Class of Honours and Department.			
		Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1862	John Ferguson, Scotland,	...	...	...	I
1866	John Mann, "	I	...	...	...
"	John Fergusson, "	...	II	...	...
1867	William E. Grigsby, . . . England,	II	...	...	...
"	James Smith, Scotland,	...	...	I	...
"	William Ross, . . . . . "	...	...	II	...
1868	Robert Stewart, "	...	I	...	...
"	John Wilson, "	...	I	...	...

				Class of Honours and Department.			
				Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1869	Favour James Greg,	.	Scotland,	...	I	...	...
"	Adam Semple,	.	"	...	I	...	...
"	Joseph Loudon,	.	"	...	...	II	...
"	James M'Intosh,	.	"	...	I	...	...
1870	John Cross,	.	U.S.A.,	I	I	...	...
"	Matthew M. Dickie,	.	England,	II	I	...	...
"	James Orr,	.	Scotland,	...	I	...	...
"	Robert A. Sinclair,	.	"	...	II	...	...
"	James D. H. Dickson,	.	"	...	...	II	...
"	Dugald M'Kichan,	.	"	...	...	II	...
1871	William S. Fleck,	.	"	...	I	...	...
"	William Oliver,	.	Wales,	...	II	...	...
"	John E. H. Thomson,	.	Scotland,	...	II	...	...
"	Colin R. M'Clymont,	.	"	...	I	...	...
"	Charles S. Dickson,	.	"	...	II	II	...
1872	William Hamilton,	.	"	...	I	...	...
"	John Watson,	.	"	...	I	...	...
"	Zachary M. H. Ross,	.	"	...	II	...	...
"	Archibald Russell,	.	"	...	II	...	...
"	William G. Miller,	.	"	...	...	II	...
"	John M. Brown,	.	"	...	I	...	...
"	Alexander S. Macphee,	.	"	...	I	...	...
"	James C. MacTaggart,	.	"	...	...	I	...
"	James Henderson,	.	"	...	...	II	...
1873	William Bathgate,	.	"	I	...	...	...
"	John M'Cunn,	.	"	...	I	...	...
"	T. Lindsay Galloway,	.	"	...	...	I	...
"	David Hunter,	.	"	II	I	...	...
"	Robert Harvey,	.	"	I	...	...	...
"	Thomas H. Miller,	.	"	...	...	I	...
"	Buchanan Blake,	.	"	...	II	...	...
"	James Arthur,	.	"	...	...	II	...
1874	James Bonar,	.	"	I	I	...	...
"	James G. Frazer,	.	"	I	...	...	...
"	Alexander F. Fraser,	.	"	...	I	...	...
"	John Wilson Reid,	.	"	I	...	II	...
"	Colin Campbell,	.	"	II	I	...	...
"	James Thomson,	.	"	...	I	...	...
"	Hugh Hart Currie,	.	"	II	...	...	...
"	James MacKay,	.	"	...	II	...	...
1875	Benjamin F. C. Costelloe,	.	Ireland,	II	I	...	...
"	William Yuill King,	.	Scotland,	I	...	...	...
"	William Patrick,	.	"	...	I	...	...
"	John Patrick,	.	"	II	...	...	...
"	James S. Russell,	.	"	...	...	I	...
"	John C. Watt,	.	"	...	...	I	...
"	John B. Douglas,	.	England,	II	...	...	...
"	Neil D. MacLachlan,	.	Scotland,	...	II	...	...
"	James Johnston Dobbie,	.	"	...	...	...	I
1876	James Lambie,	.	"	...	I	...	...
"	Ebenezer B. Speirs,	.	"	...	I	...	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1876	Islay F. Burns,	Scotland,	II	...	...	...
"	Robert MacLehose,	"	...	II	...	...
"	Joseph Conn, . . . . .	"	...	...	II	...
"	Robert H. Pinkerton, . . . . .	"	...	...	II	...
"	David Wilson, . . . . .	"	...	...	II	...
"	John P. Mitchell,	"	...	I	...	...
"	William M. Rankin,	"	...	I	...	...
"	Andrew Gray, . . . . .	"	...	...	II	...
1877	Wallace M. Lindsay,	"	I	II	...	...
"	Alexander S. Wilson, . . . . .	"	...	...	...	I
"	James Kidd,	"	...	I	...	...
"	Thomas B. Kilpatrick,	"	...	I	...	...
"	Mungo W. M'Callum,	"	...	II	...	...
"	William Allan, . . . . .	"	...	...	II	...
"	James Arthur, . . . . .	"	...	...	II	...
1878	Robert Mackintosh,	"	II	I	...	...
"	John Edgar,	"	I	...	...	...
"	John M. Dodds, . . . . .	"	...	...	I	...
"	David W. Forrest,	"	...	II	...	...
"	Alexander Isdale,	"	...	I	...	...
"	Lewis A. Muirhead,	"	...	I	...	...
"	James Wilson,	"	II	...	II	...
1879	John Wilson Marshall,	"	I	II	...	...
"	Francis Wm. Clark,	"	II	II	...	...
"	Henry Jones,	Wales,	...	I	...	...
"	William T. Bankhead,	Scotland,	...	II	...	...
"	Andrew Rutherford,	"	...	II	...	...
"	James Thomson,	Ireland,	...	...	II	...
"	James Denney,	Scotland,	I	I	...	...
"	James Kippen Duff,	"	I	...	...	...
"	Robert Tannahill Younger,	"	...	II	...	...
"	William L. Macindoe, . . . . .	"	...	...	II	...
1880	Alexander Gregory,	"	II	...	...	...
"	Thomas Gregory,	"	I	I	I	...
"	Alexander N. Cumming,	"	II	II	...	...
"	Hugh Young Reyburn,	"	II	II	...	...
"	John G. A. Dow,	"	II	...	...	...
"	John Henderson,	"	...	II	...	...
1881	Cecil J. Swan,	"	II	...	...	...
"	Francis H. Stead,	England,	II	I	...	...
"	David S. Adam,	Scotland,	...	I	...	...
"	William Granger,	"	...	I	...	...
"	Robert F. Muirhead, B.Sc., . . . . .	"	...	...	I	...
"	Alexander Russell, . . . . .	"	...	...	I	...
"	Patrick H. Aitken,	"	II	...	...	...
"	Alexander Anderson,	"	II	...	...	...
"	Robert T. Loudon,	"	...	II	...	...
"	Robert Veitch,	England,	...	II	...	...
"	James Maclay,	Scotland,	...	...	II	...
"	John Stuart, . . . . .	"	...	...	II	...
"	James Hamilton, . . . . .	"	...	...	II	...

				Class of Honours and Department.			
				Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1882	James A. M'Callum,	.	Scotland,	...	I	...	...
"	John H. Fullarton,	.	"	...	...	...	I
"	Charles P. Blair,	.	"	...	II	...	...
"	James M. Dodds,	.	"	I	...	...	...
"	John S. MacKenzie,	.	"	...	I	...	...
"	William Smart,	.	"	...	I	...	...
"	John Weir,	.	"	...	...	I	...
"	John Gray,	.	"	...	II	...	...
"	Charles Steele,	.	"	...	II	...	...
1883	John Aitken Orr,	.	"	...	I	...	...
"	Alexander Robinson,	.	"	...	II	...	...
"	Lewis Hughes,	.	Wales,	...	II	...	...
"	Francis Anderson,	.	Scotland,	...	I	...	...
"	Wm. S. M'Kechnie,	.	"	...	I	...	...
"	William Muir,	.	"	...	I	...	...
"	James W. Inglis,	.	"	...	II	...	...
"	Patrick H. Hutchinson,	.	Ireland,	II	...	...	...
"	Robert A. Moody,	.	Scotland,	II	...	...	...
"	William T. Mitchell,	.	"	...	...	II	...
1884	Andrew A. Mitchell,	.	"	I	...	...	...
"	James M'Millan,	.	"	I	...	...	...
"	Archd. S. Laidlaw,	.	"	...	I	...	...
"	John Mack,	.	"	...	...	I	...
"	William Clark,	.	"	II	...	...	...
"	John Struthers,	.	"	II	I	...	...
"	Archibald M'Laren,	.	"	I	...	...	...
"	John Adams,	.	"	...	I	...	...
"	James Barr,	.	"	...	I	...	...
"	Gavin Lambie,	.	"	...	I	...	...
"	Robert M. Wenley,	.	"	...	I	...	...
"	George G. Henderson,	.	"	...	...	...	I
"	Campbell N. Moody,	.	"	II	II	...	...
"	Hugh Stevenson,	.	"	...	II	...	...
"	James Strachan,	.	"	...	...	II	...
"	Alex. B. Symington,	.	"	II	...	...	...
1885	John Lee,	.	"	I	...	...	...
"	James Buchanan,	.	"	...	...	I	...
"	Norman Fraser,	.	"	...	...	I	...
"	James P. M'Laren,	.	"	II	...	...	...
"	William Binnie,	.	"	...	II	...	...
"	David Frew,	.	"	...	II	...	...
"	Richard Glaister,	.	"	...	II	...	...
"	David Houston,	.	"	...	II	...	...
"	Walter Wingate,	.	"	...	...	II	...
"	William M. Mackay,	.	"	...	I	...	...
"	Andrew F. Smith,	.	"	...	I	...	...
"	Alex. L. Watson,	.	"	II	...	...	...
"	Archibald J. Macnicol,	.	"	...	...	II	...
1886	Charles F. Fleming,	.	England,	...	I	...	...
"	Wellstood A. Watt,	.	Scotland,	...	I	...	...
"	John Dougall,	.	"	...	...	I	...

			Class of Honours and Department.			
			Classics.	Mental Philos.	Nat. Phil. & Math.	Natural Science.
1886	John M'Cowan, B.Sc.,	Scotland,	...	...	I	...
"	William H. Carslaw,	"	...	...	II	...
"	Magnus M'Lean,	"	...	...	II	...
"	John A. Cramb,	"	I	...	...	...
"	Robert A. Duff,	"	...	I	...	...
"	William Johnston,	"	...	II	...	...
"	James Macmillan,	"	...	...	II	...
"	Robert A. Nicolson,	"	...	...	II	...
1887	James Finlayson,	"	...	...	II	...
"	James Gifford,	"	...	II	...	...
"	Charles Mackay Gordon,	W. Indies,	...	I	...	...
"	David Smith,	Scotland,	I	...	...	...
"	John Watson Bryson,	"	...	I	...	...
"	Robert Gardner,	"	...	II	...	...
"	James Gilfillan,	"	...	I	...	...
"	Daniel Kirkwood,	"	...	II	...	...
"	Alexander Lucas Taylor,	"	II	...	...	...
"	John Thomson,	"	...	...	II	...
1888	John Esslemont Adams,	"	II	...	...	...
"	Archibald Lamont,	"	...	II	...	...
"	Arthur David Millar,	"	I	...	...	...
"	John Dickson Sinclair,	"	...	II	...	...
"	Evan Keri Evans,	Wales,	...	I	...	...
"	Robert Kennedy, B.Sc.,	Scotland,	...	...	...	I
"	John Liddle King,	"	...	II	...	...
"	Malcolm Macnicol,	"	...	...	II	...
"	Ernest Findlay Scott,	England,	I	I	...	...
"	Robert Scrymgeour,	Scotland,	...	I	...	...
"	Robert Reid Strachan,	"	...	II	...	...
"	John Cunningham Walker,	"	...	II	...	...
1889	Norman de Garis Davies,	England,	...	II	...	...
"	George Davidson Kempt,	Scotland,	...	II	...	...
"	Alfred Ernest Garvie,	Poland,	...	I	...	...
"	John Hunter Harley,	Scotland,	...	I	...	...
"	John Brownlee,	"	...	...	I	...
1890	James Fairlie Gemmill,	"	I	...	...	...
"	John Edgar M'Fadyen,	"	I	...	...	...
"	James Robertson Cameron,	"	...	I	...	...
"	James Moffatt,	"	II	...	...	...
"	James Peter Wilson,	"	II	...	...	...
"	John Easton Black,	"	...	II	...	...
"	George Douglas Brown,	"	I	...	...	...
"	Robert Bulloch Douglas,	"	...	I	...	...
"	Peter Pinkerton,	"	...	...	I	...
"	Douglas Blyth Binning,	"	...	II	...	...
"	Robert Baillie Douglas,	"	...	II	...	...
"	James Hair Maclean,	"	...	II	...	...
"	Gilbert Buchanan,	"	...	...	II	...
"	Alexander Holm,	"	...	...	II	...
1891	John Hamilton Pagan,	"	I	...	...	...
"	John Gillies,	"	II	...	...	...

		<i>Class of Honours and Department.</i>			
		Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1891	John M'Gilchrist, . . . Scotland,	II	...	...	...
"	Horatio Scott Carslaw, . . . "	...	...	I	...
"	James Holm, . . . . . "	...	...	I	...
"	Nicol Macnicol, "	II	II	...	...
"	John White, "	...	II	...	...
1892	David Donaldson Robertson, . . . "	...	I	...	...
"	Daniel Lamont, "	...	II	I	...
"	John Gillespie Spens, "	II	...	...	...
"	Alexander Taylor, "	II	...	...	...
"	Walter Stewart, . . . . . "	...	...	I	...
1893	Donald Nicol Dow, "	I	...	...	...
"	Gilchrist Gibb Alexander, "	...	I	...	...
"	Robert Stevenson Horne, "	...	I	...	...
"	William Sandilands Templeton, . . . . . "	...	...	I	...
"	Wm. Carrick Anderson, . . . . . "	...	...	...	I
"	Edward H. Wallace, "	II	...	II	..
1894	Campbell M. Macleeroy, "	I	...	...	...
"	Robert George Nisbet, "	II	...	...	...
"	Andrew Robertson, "	II	...	...	...
"	John Charles Scott, Ireland,	I	...	...	...
"	Charles William Thomson, Scotland,	I	...	...	...
"	William Romaine Paterson, "	...	I	...	...
"	Charles Shirra Dougall, . . . . . "	...	...	I	...
"	William Craig Henderson, . . . . . "	...	...	I	...
"	John Macfarlane Forsyth, "	II	...	...	...
1895	William Gow, "	I	...	...	...
"	Joseph Ferguson M'Fadyen, "	I	...	...	...
"	Gavin Lang Pagan, "	...	I	...	...
"	William Anderson Lindsay, . . . . . "	...	...	I	...
"	Thomas Nisbet, . . . . . "	...	...	I	...
"	John Alexander Duke, "	...	II	...	...
1896	David Hodge Crawford, "	I	...	...	...
"	John Freeland Cunningham, "	II	...	...	...
"	John Girvan, "	II	...	...	...
"	James M'Murtrie, "	II	...	...	...
"	James Slater Dunlop, . . . . . "	...	...	II	...
"	William Morrison, "	...	II	...	...
"	Samuel Harvey M'Ewing, "	...	II	...	...
"	Alexander Smith, "	...	II	..	...
"	John Miller, . . . . . "	...	...	I	..
1898	William John Sauil, England,	...	II	...	...
1899	James Moffat, Scotland,	...	...	II	...

MASTERS OF ARTS (M.A.).

Ordinances No. 11, Sections xi.-xv.; No. 44, Sections vi., viii. (1889).

		First Class.	Second Class.	Third Class.
1894	Henry Noel Brailsford, England,	Mental Philosophy.	Classics.	
1895	William Gregory Bell, do.,	Classics.		
"	James Wallace Peck, Scotland,	Math. & Nat. Phil.		
"	William King Gillies, do.,	(Classics.		
"		(Mental Philosophy.		
1896	James Paterson Brander, do.,	Classics.		
"	John Maclean Ramsay, do.,	Classics.		
"	Horace Fenton Wallace, do.,	Classics.		
"	James Gillespie, do.,		Classics.	
"	William Boyd, do.,	Mental Philosophy.		
"	James Wilson Copeland, do.,	Math. & Nat. Phil.		
"	Adam Bell Stewart, do.,	Math. & Nat. Phil.		
"	George Donald Valentine, do.,	Math. & Nat. Phil.		
"	Arthur West Wilkie, England,	. . . .	Math. & N. P.	
"	John Young, do., Scotland,	. . . .	Math. & N. P.	
1897	George Stewart Adams, do.,	Classics.		
"	Robert Daniels Bell, England,	Classics.		
"	John W. Henderson, Scotland,	Classics.		
"	Peter William Monie, do.,	Classics.		
"	Marion M. Crichton, China,	. . . .	Classics.	
"	Alex. James Martin, Scotland,	. . . .	Classics.	
"	Thomas Neilson, do.,	. . . .	Classics.	
"	Allan Gibson, do.,			Classics.
"	Thomas Ellis Jones, Wales,	Mental Philosophy.		
"	David Stevenson, Scotland,	. . . .		English.
"	William M. R. Pringle, "	History.	Classics.	
"	Gavin Scott, "	History.	Classics.	
"	Adam Hamilton, "	Classics.		
"	James William Baird, "	. . . .	Classics.	
"	Grace Foulis Hay, "	. . . .	Classics.	
"	William N. Raeburn, "	. . . .	Classics.	
"	Andrew Boyd Scott, "	Mental Philosophy.		
"	John Seoular Thomson, "	Mental Philosophy.		
"	Alex. M'Callum Scott, "	. . . .		(Ment. Phil.
"	James Campbell Ker, "	Math. & Nat. Phil.		
"	William Wylie Fulton, "	. . . .	English.	
"	Richard R. Williams, Wales,	. . . .		English.
1898	John Lyle Morison, Scotland,	(History.		
"		(English.		
"	William H. Begg, "	Classics.		
"	David L. Blair, "	Classics.		
"	John Harvey, "	Classics.		
"	Dorothy N. T. Murray, "	. . . .	Classics.	
"	Constance Tamahill, England,	. . . .		Classics.
"	Alexander A. Gardner, Scotland,	Math. & Nat. Phil.		
"	James E. Henderson, "	. . . .	Math. & N. P.	
"	Wm. Fulton (Uddingston), "	Classics.	Math. & N. P.	

		First Class.	Second Class.	Third Class.
1898	Eliz. Pettigrew Taylor, Scotland,	Math. & Nat. Phil.	English.	Classics, M. Phil.
"	William Longmore Parkin, "	Classics.	"	
"	Robert M'Ewan, . . . "	Classics.	"	
"	Helen Rutherford, . . . "	Classics.	"	
"	William Fulton (Glasgow), "	"	Classics.	
"	William Henderson Love, "	"	Classics.	
"	Alexander Auchinachie, "	"	"	Classics.
"	And. James Campbell Kerr, "	"	"	Classics.
"	Hugh Reid Buchanan, "	Mental Philosophy.	"	
"	David H. Tweeddale, . . . "	Mental Philosophy.	"	
"	Robert Candlish, . . . "	"	Ment. Phil.	
"	Robert John Tainsh Bell, "	Math. & Nat. Phil.	"	
"	Thomas Pullar, "	Math. & Nat. Phil.	"	
"	Joseph White, "	Math. & Nat. Phil.	"	
"	Hugh Brown, "	"	Math. & N.P.	
"	Peter Lowson, "	"	Math. & N.P.	
"	John Jeffrey, "	"	"	M. & N.P.
"	Helen Margaret Rule, . . . "	English.	"	
"	Henry Murphy, "	"	English.	
"	Henry Givan Webber, . . . "	"	"	English.
1899	Samuel F. H. Mackay "	Classics.	"	
"	Archibald Main, "	Mental Philosophy.	"	
"	John Edgar, "	English.	"	
"	Maude Gertrude May, England,	English.	"	
"	Alexander D. Lindsay, Scotland,	"	Classics.	
"	Charles G. M'Iravey, Ireland.	"	Classics.	
"	Gordon B. Nielson, . . . Scotland.	"	English.	
"	Jessie Lyon Gilchrist, . . . "	"	Mod. Lang.	
"	Minnie Louise Arthur, . . . "	"	"	M. Lang.

BACHELORS OF SCIENCE (B.Sc.).

		Honours.	
		Natural Science.	Engineering Science.
1879	Robert F. Muirhead, C.E., Scotland,	"	Math. & Nat. Phil. 11
1882	John Cleland, C.E., . . . do.,	"	Math. & Nat. Phil. 11
1883	John M'Cowan, C.E., . . . do.,	"	Math. & Nat. Phil. 11
1884	William Weir, do.,	"	Math. & Nat. Phil. 11
"	James C. Todd, India,	Math. & Nat. Phil. 11	"
1886	Lawrence Crawford, . . . Scotland,	"	Math. & Nat. Phil. 1
1887	Angus M'Lean, do.,	"	Math. & Nat. Phil. 11
1890	James Stanley Muir, . . . do.,	Chemistry.	"
"	Robert Watson Smith, . . . do.,	Chemistry.	"
1891	James Fenwick, Australia,	"	Civil Engineering.
"	Robert Main, Scotland,	Chemistry.	"
"	Robert Muir Ferrier, . . . do.,	"	Civil Engineering.
1892	John Dewar Cormack, . . . do.,	"	Math. & Nat. Phil. 1
			Civil Engineering.

			<i>Honours.</i>	
			Natural Science.	Engineering Science.
1892	Jas. Blacklock Henderson, Scotland,			Math. & Nat. Phil. I
	James Rankin, . . . do.,	Zoology and Botany.		Civil Engineering.
	William S. Cook, . . . do.,	Physiology.		
	David R. Boyd, . . . do.,	Chemistry.		
1893	James C. Robertson, M.A., do.,	Anat. and Physiol.		
1894	Charles Forbes, . . . do.,			Civil Engineering.
	Wm. Henry Lang, . . . England,	Botany and Zoology.		
	George Wm. Shearer, . . Ireland,			Civil Engineering.
1895	Wm. Craig Henderson, . Scotland,			Math. & Nat. Phil. I
	Hugh Calderwood, . . . do.,	Anat. and Physiol.		
	John Allan Craigie Macewen, do.,	Anat. and Physiol.		
	William Hamilton, . . . do.,			Civil Engineering.
	Campbell Macmillan, . . do.,			Civil Engineering.
	Thomas Hunter, M.A., . . do.,	Anat. and Physiol.		
	William Martin, M.A., . . do.,	Anat. and Physiol.		
1896	William S. Templeton, M.A., do.,			Math. & Nat. Phil. I
	Peter L. L. Craig, M.A., . do.,	Anat. and Physiol.		

The Honours awarded to the Bachelors of Science in the foregoing list were awarded under the Old Regulations. Now every graduate in Pure Science under Ordinance No. 12 passes the Final Science Examination on a standard equivalent to the standard for the Degree of M.A. with Honours.

DOCTORS OF MEDICINE (M.D.). (O.R.) HONOURS.

1845	Alexander Lindsay,	Scotland.	1849	Matthew John Rae,	Scotland.
	James Craigie Murray,	do.	1850	John Ternan,	Ireland.
	Francis Reynolds,	Ireland.		John Henry Eddowes,	England.
	John Brown,	Scotland.		James Brash,	Scotland.
	John Gardiner,	do.	1851	Alexander Marshall,	do.
	Donald Cameron,	Isle of Man.		Andrew Spearing,	Ireland.
	Adam Nicholson,	Scotland.		James B. Montgomery,	England.
	John Duke,	Ireland.		Robert Perry,	Scotland.
1847	William Parry,	Wales.		John Watson, B.A.,	do.
	Robert Livingstone,	Scotland.		John Ritchie Brown,	do.
	Alexander B. Sharpe	Scotland.	1853	Charles D. Campbell,	Ireland.
1848	Charles H. Hitchen,	England.		Richard Stanistreet,	do.
	James Steven,	Scotland.		David Knox,	do.
	John Coates,	Ireland.	1854	John Lindsay Stewart,	Scotland.
1849	Robt. Brown M'Clelland,	Ireland.		James Fraser Paton,	do.
	Thomas Nicholson,	Scotland.		David Easton,	Ireland.
	Robert Settle,	England.	1855	William Leishman,	Scotland.
	Richard Thomas Tracy,	Ireland.		William J. Lewis, New Brunswick	

1855	Alexander Robertson,	Scotland.	1863	George M'Donald,	Scotland.
1857	Thomas Beaumont,	Ireland.	„	Samuel J. Moore,	Ireland.
„	Joseph M. Fleming,	Scotland.	„	William Fraser,	Nova Scotia.
„	Maxwell Rodgers,	Ireland.	„	T. Algernon Chapman,	Scotland.
1858	John Couper,	Scotland.	„	Algernon Wood Smith,	do.
„	Thomas M'Call Anderson,	do.	„	John P. Atkinson,	England.
1859	Daniel Dougal,	do.	1864	John Wyber,	Scotland.
1861	William Marshall,	America.	„	John G. Wilson, M.A.,	do.
„	John M. Murray,	Scotland.	1865	Arthur A. Jamieson,	England.
1862	James A. Allan,	do.	1867	Fred. H. Quaife, M.A.,	Sydney, N.S.W.
1863	Robert M'K. Duncan,	do.			

DOCTORS OF MEDICINE (M.D.). (N.R.)

- 1876 ¹Gardner, William, M.B., England.
- 1877 ¹Turner, William Y., M.B., Scotland. Thesis, "The Ethnology of the Motu."
- 1879 ¹Fleming, William James, M.B., Scotland. Thesis, "The Dicrotic Notch in Pulse Tracings."
- 1880 ¹Oliver, Thomas, M.B., Scotland. Thesis, "Hereditv viewed in its relation to Responsibility."
- 1880 ¹Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family—most probably on a Continent in the Indian Ocean—certainly within the Tropics."
- 1881 ¹Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation between Abscess of Brain and Aural Disease."
- 1881 ¹Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."
- 1881 ¹Drummond, James, M.B., Scotland. Thesis, "Sea Sickness: its Etiology, Symptoms, and Treatment."
- 1881 ¹Macphail, Donald, M.B., Scotland. Thesis, "Chemical Investigations on the Degenerative Changes in Diseased Bone."
- 1882 ¹Cairns, David, M.B. Thesis, "An Outbreak of Pyæmia."
- 1882 ¹Adam, Thomas Bate, M.B., Scotland. Thesis, "The Pathology and Etiology of Elephantoid Disease."
- 1882 ¹Rankin, Guthrie, M.B., Scotland. Thesis, "Puerperal Fever."
- 1883 ¹Inglis, David Wood, M.A., M.B., Scotland. Thesis, "On the Prevention of Lead Poisoning among Workers in White Lead Factories."
- 1883 ¹Newman, David, M.B., Scotland. Thesis, "Displacements of the Kidney."
- 1884 ¹Lawrie, J. Macpherson, M.B., Scotland. Thesis, "On some Symptoms of Locomotor Ataxy."
- 1884 ¹Allan, Robert, M.B., Scotland. Thesis, "Dermoid Cysts."
- 1884 ²Middleton, George S., M.A., M.B., Scotland. Thesis, "On the Pathology of Pseudo-Hypertrophic Muscular Paralysis."
- 1884 ²Steven, John Lindsay, M.B., Scotland. Thesis, "The Pathology of Suppurative Inflammations of the Kidneys."
- 1885 ²Mackay, John Yule, M.B., Scotland. Thesis, "The Origin and Development of the Larger Arteries."
- 1885 ¹Macvie, William, M.B., Scotland. Thesis, "Atrophic Infantile Paralysis."
- 1885 ¹Dougal, James, M.B., Scotland. Thesis, "Puerperal Pyrexia."
- 1886 ¹Lawrie, William John, M.B., Scotland. Thesis, "Pathological Formations of the Skin."
- 1886 ²Somerville, William Francis, M.A., B.Sc., M.B., Scotland. Thesis, "Urosemiotic; the Pathological Chemistry of the Urine, the complete Quantitative Analysis of the Urine; a valuable aid to Clinical Diagnosis."

¹ Commended for Thesis.² Highly commended.

- 1886 ²Stewart, Robert Sloss, M.B., Scotland. Thesis, "Observations on the Spinal Cord in the Insane."
- 1886 ¹Rankin, Alexander, M.B., Scotland. Thesis, "Cerebral Cases, with remarks."
- 1886 ¹Auld, Alexander Gunn, M.B., Scotland. Thesis, "Studies in Materia Medica."
- 1887 ¹Chalmers, Archibald Kerr, M.B., Scotland. Thesis, "The Temperature Curve of Specific Fevers."
- 1887 ¹Neilson, Henry John, M.B., Scotland. Thesis, "On the observation of the pupil as a guide in the administration of Chloroform."
- 1887 ¹Brown, John, M.B., Scotland. Thesis, "Maternal Impressions."
- 1887 ¹Love, John, M.B., Scotland. Thesis, "Three cases of Cortical Epilepsy considered in relation to the localization of the discharging lesion."
- 1888 ¹Finlay, David, M.B., Scotland. Thesis, "Clinical Observations on Epileptic Insanity."
- 1888 ¹Love, James Kerr, M.B., Scotland. Thesis, "The Limits of Hearing."
- 1888 ¹Macpherson, Charles, M.B., Scotland. Thesis, "Plural Pregnancies."
- 1888 ¹Wallace, William, M.B., Scotland. Thesis, "The Field of Vision: with special reference to its Anomalies in Diseases of the Nervous System."
- 1889 ¹Christie, William Walls, M.B., C.M., Scotland. Thesis, "The Outbreak of Febrile Disease in St. Mary's Roman Catholic Industrial Schools, Glasgow, March 1888: its Clinical Features and Nature."
- 1889 ¹Kelly, James Kellock, M.B., Scotland. Thesis, "Private Obstetric Practice: an analysis of 3000 consecutive cases."
- 1889 ¹Mackenzie, William James, M.B., India. Thesis, "The effects of the conditions of London Life on the Nervous System: with remarks on the treatment."
- 1889 ¹Hinshelwood, James, M.A., M.B., Scotland. Thesis, "A Clinical Study of Syphilitic Diseases of the Nervous System."
- 1890 ¹Anderson, John Alexander, M.B., Scotland. Thesis, "On Tetanus: with a record of six cases."
- 1890 ¹Bankier, Alexander Milne, M.B., England. Thesis, "Influenza."
- 1891 ¹Smith, John Macdowal, M.B., Scotland. Thesis, "The Disposal of Sewage and City Refuse."
- 1891 ³Rhodes, Hugh, M.B., C.M., England. Thesis, "Koch's Treatment in Phthisis and Lupus."
- 1891 ¹Bannatyne, Gilbert Alexander, M.B., C.M., Scotland. Thesis, "The Treatment of Diphtheria by the Injection of the Erysipelas Albumose."
- 1891 ¹McGregor, Andrew Nicholson, M.B., C.M., Scotland. Thesis, "Some Notes on the Repair of Bone, with special reference to Transplantation and other Artificial Aids."
- 1891 ¹Ramsay, Andrew Maitland, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre."
- 1891 ¹Johnstone, John Carlyle, M.B., C.M., Scotland. Thesis, "Some Notes on the use of Sulphonal."
- 1892 ¹Highet, Hugh, M.B., C.M., Scotland. Thesis, "The Bronchiopneumonia of Influenza, as it occurs in the Adult Subject."
- 1892 ¹Park, Alexander Glen, M.B., C.M., Scotland. Thesis, "Defects of Speech."
- 1893 ¹Lang, Hugh, M.B., C.M., Scotland. Thesis, "Empyema, with Notes on a Series of Cases."
- 1893 ¹Gillies, Hugh Cameron, M.B., C.M., Scotland. Thesis, "The Theory of Counter-irritation."
- 1893 ³Carlsaw, John Howie, M.A., M.B., C.M., Scotland. Thesis, "On the severer forms of Scarlet Fever, with special reference to Antipyretic Methods of Treatment."
- 1893 ¹Adam, Robert Hillhouse, M.A., M.B., C.M., Scotland. Thesis, "Observations on some Enteric Fever Epidemics."

- 1893 ¹ Bryce, Alexander, M.B., C.M., Scotland. Thesis, "Sanitation in Dairy Farms in relation to diseases attributable to Cows' Milk."
- 1893 ¹ Dunlop, Alexander Watson, M.A., M.B., C.M., Scotland. Thesis, "A recent Epidemic of Smallpox, with some remarks on Re-Vaccination."
- 1893 ¹ Gemmell, William, M.B., C.M., Scotland. Thesis, "On the Treatment of Phthisis by a long Sea Voyage in a sailing ship."
- 1893 ¹ Watson, William, M.B., C.M., Scotland. Thesis, "The Prevention and Treatment of Diphtheria."
- 1894 ¹ Johnston, John M'Cubbin, M.A., M.B., C.M., Scotland. Thesis, "The Prognosis of Acute Lobar Pneumonia in the Pauper Class."
- 1894 ² Jack, William Robert, B.Sc., M.B., C.M., Scotland. Thesis, "Observations on the Analysis of Voluntary Muscular Movements by certain new Instruments."
- 1895 ¹ Abercrombie, Peter Henderson, M.B., C.M., Scotland. Thesis, "Turbinotomy in Nasal Stenosis: Analysis and Notes of 66 cases."
- 1895 ² Mouro, Thomas Kirkpatrick, M.A., M.B., C.M., Scotland. Thesis, "Essays in Neurology: Historical and Clinical."
- 1895 ¹ Banks, Charles, M.B., C.M., Scotland. Thesis, "Observations on Epidemics of Cholera in India, with special reference to their immediate connection with pilgrimages."
- 1895 ¹ Bell, Andrew Lees, M.B., C.M., Scotland. Thesis, "The Influence of a previous sire, and its relation to maternal impressions."
- 1895 ¹ Campbell, Finlay Stewart, M.B., C.M., Scotland. Thesis, "Paroxysmal Haemoglobinuria: its treatment with special reference to the arrest of the Paroxysm by Quinine."
- 1895 ¹ Charles, John, M.B., C.M., Scotland. Thesis, "A contribution to the Meteorology of Sporadic Pneumonia."
- 1895 ¹ Macgregor, John, M.B., C.M., Scotland. Thesis, "On Paralysis following Diphtheria in Children."
- 1895 ¹ Edington, George Henry, M.B., C.M., Scotland. Thesis, "Bile Salts (Glycocholate and Taurocholate Soda) in relation to excretion of Urea, etc."
- 1895 ¹ Hughes, Arthur Davies, M.B., C.M., Wales. Thesis, "Anchylostomiasis."
- 1895 ¹ Marr, Hamilton Clelland, M.B., C.M., Scotland. Thesis, "On Myxoedema and the Functions of the Thyroid Gland: with notes on the treatment of certain cases of Insanity by Thyroid preparations."
- 1896 ¹ Marshall, Robert James, M.B., C.M., Scotland. Thesis, "The mild Malaria Fevers and their Microbe."
- 1896 ¹ Dittmar, Frederick, M.A., M.B., C.M., Scotland. Thesis, "Scarlatinal Albuminuria."
- 1896 ¹ Gray, Albert Alexander, M.B., C.M., Scotland. Thesis, "An Investigation into some of the Principles of Auscultation."
- 1896 ¹ Nisbet, Adam Thomson, M.B., C.M., Scotland. Thesis, "Observations on some cases of Liver Abscess."
- 1896 ¹ Todd, James, M.B., C.M., Scotland. Thesis, "Puerperal Scarlatina."
- 1896 ² Kennedy, Robert, M.A., B.Sc., M.B., C.M., Scotland. Thesis, "Studies on the Regeneration of Nerves."
- 1896 ¹ Kirkland, Thomas Speirs, M.B., C.M., Scotland. Thesis, "Quinine Amaurosis."
- 1897 ¹ Don, William Walton, M.B., C.M., England. Thesis, "Thyroid Therapeutics."
- 1897 ¹ Hunter, Walter King, B.Sc., M.B., C.M., Scotland. Thesis, "A contribution to the Etiology of Beri-Beri."
- 1897 ¹ Thomson, James, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre, with special reference to its treatment by Thymus Gland."

¹ Commended for Thesis.² With Honours.

- 1897 ² Thomson, Robert Stevenson, B.Sc., M.B., C.M., Scotland. Thesis, "Pertussal Glucosuria, with observations on the reduction of Fehling's solution by the urine in childhood."
- 1897 ¹ Brownlee, John, M.A., M.B., C.M., Scotland. Thesis, "The Diagnosis and Hospital Administration of Scarlatina."
- 1897 ¹ Galloway, Andrew Fleming, M.B., C.M., Scotland. Thesis, "Movable Kidney: its Aetiology and Symptoms."
- 1897 ¹ Harris, David Fraser, B.Sc., M.B., C.M., Scotland. Thesis, "A Research into the Spectroscopy of Blood-pigment, and its derivatives in health and disease."
- 1897 ¹ Seright, William, M.B., C.M., Scotland. Thesis, "Neurasthenia (nervous exhaustion): a review of the origin and growth of the term, frequency of the disease, and of its chief forms and classifications, symptoms, diagnosis, prognosis, theories, and treatment."
- 1897 ¹ Temple, Lewis Dunbar, M.B., C.M., Scotland. Thesis, "Sporadic Cretinism and allied disorders."
- 1897 ¹ Wylie, Richard John, M.B., C.M., Scotland. Thesis, "Pneumonia, with notes on twenty-nine cases."
- 1898 ¹ M'Kenzie, Daniel, M.B., C.M., Scotland. Thesis, "Endemic Goitre, with particular reference to its occurrence in Lanarkshire, and to its Etiology."
- 1898 ¹ Bell, Robert Gordon, M.B., C.M., Scotland. Thesis, "Enteric Studies, chiefly in Aberrant Types."
- 1898 ² Findlay, John Wainmann, M.B., C.M., Scotland. Thesis, "The Choroid Plexuses of the Lateral Ventricles, their Anatomy, Functions, and Pathology (in relation specially to Insanity)."
- 1898 ¹ Wilson, James Dunlop Octavus, M.B., C.M., Scotland. Thesis, "Adenoid Vegetations in the Nasopharynx; a Clinical and Pathological Study of 214 Cases."
- 1898 ¹ Biernacki, John Thomson, M.B., C.M., India. Thesis, "Secondary Microbic Invasion occurring in the course of the Commoner Fevers."
- 1898 ¹ Thomson, Henry Hyslop, M.B., C.M., Scotland. Thesis, "Epilepsy: a theory as to its probable cause, with some remarks regarding its relation to Insanity and Hysteria."
- 1898 ¹ Webster, Alfred, M.B., C.M., England. Thesis, "Cardiac Inhibition in relation to Cerebral Anæmia and Epileptiform Crises."
- 1899 ¹ Marshall, Campbell Samson, M.B., C.M., Scotland. Thesis, "Antistreptococcus Serum: its application in the treatment of Scarlatina Anginosa."
- 1899 ¹ Primrose, Edward James, M.A., M.B., C.M., Scotland. Thesis, "Notes on the Method and on the Diagnostic Value of the Serum Reaction (Widal's Test) in Enteric Fever; with a record of 149 examinations of Serum made in 57 cases of Enteric Fever, and in 22 other cases."

BACHELORS OF MEDICINE (M.B.). HONOURS.

1866	Robert W. Forrest,	Scotland.	1872	Samson Ginnell,	Scotland.
"	Henry T. Pringle,	"	1876	Geo. S. Middleton, M.A.,	"
1867	Ebenezer Duncan,	"	"	Richard B. Macpherson,	"
"	Joseph Coats,	"	1877	Johan B. Knobel,	Africa.
"	James Finlayson,	"	"	Donald Macphail,	Scotland.
1868	Thomas Barr,	"	"	John Carlyle Johnstone,	"
"	William MacLachlan,	"	"	Edward D. M. Mackellar,	"
"	Angus Macmillan,	"	1878	Alexander Fraser,	"
1869	James Coats,	"	"	James Morton,	"
1871	David Wilkie,	"	"	William Partington,	"
"	John Aikman,	"	"	Lawrence A. Waddell,	"
1872	John D. Macdonald,	"	1879	William K. Peden,	"

¹ Commended for Thesis.

² With Honours.

1879	Ralph D. Stevenson, Australia.	1894	Alexander MacLennan, Scotland.
1880	Andw. A. Hogarth, M.A., Scotland.	„	Wm. Stewart Cook, B.Sc., „
„	J. M'Gregor-Robertson, M.A., „	„	Jas. C. Robertson, M.A., B.Sc., „
„	John Lindsay Steven, „	„	Jas. Murray Young, „
1881	John More Young, M.A., „	„	John Francis Robt. Gairdner, „
1882	Robert Beith, „	„	John Wainman Findlay, „
1883	John Innes Dunlop, „	1895	Joshua Ferguson, M.A., „
1884	Charles O. Hawthorne, England.	„	Henry Alex. Pattullo, „
1886	Alexander Bryce, Scotland.	„	Ernest Alex. Walker, M.A., „
„	Wm. Snodgrass, M.A., U.S.A.	1896	John Knight, „
„	John H. Carslaw, M.A., Scotland.	„	Madge Speirs Maclean, „
1887	William MacLennan, „	1897	John A. C. Macewen, B.Sc., „
1891	Hugh Galt, „	„	Thomas Hunter, M.A., B.Sc., „
„	Robert Currie Robertson, M.A., „	1898	Wm. Kilpatrick Hutton, M.A., „
1892	John Morton, „	„	Robert Fullarton, M.A., „
„	James Carslaw, M.A., „	„	William Webster, „

BRUNTON MEMORIAL PRIZE OF £10,

Awarded to the most distinguished Graduate in Medicine of the year.

1880.	John Lindsay Steven, M.B., C.M.	1890.	George Lamb, M.B., C.M.
1881.	John More Young, M.A., M.B., C.M.	1891.	Hugh Galt, M.B., C.M.
1882.	Robert Beith, M.B., C.M.	1892.	John Morton, M.B., C.M.
1883.	John Innes Dunlop, M.B., C.M.	1893.	John Johnson Urwin, M.B., C.M.
1884.	Charles Oliver Hawthorne, M.B., C.M.	1894.	Alexander MacLennan, M.B., C.M.
1885.	Andrew Wilson, M.B., C.M.	1895.	Joshua Ferguson, M.A., M.B., C.M.
1886.	Alexander Bryce, M.B., C.M.	1896.	John Knight, M.B., C.M.
1887.	William MacLennan, M.B., C.M.	1897.	John Allan Craigie Macewen, B.Sc., M.B., C.M.
1888.	Landel Rose Oswald, M.B., C.M.	„	Thomas Hunter, M.A., B.Sc., M.B., Ch.B.
1889.	William Robert Jack, B.Sc., M.B., C.M.	1898.	William Kilpatrick Hutton, M.A., M.B., C.M.

THOMAS LOGAN MEDAL AND PRIZE,

Awarded to the most distinguished Graduate in Arts of the year.

1888.	Ernest Findlay Scott, M.A.	1893.	Gilchrist Gibb Alexander, M.A.
1889.	Alfred Ernest Garvie, M.A.	1894.	Henry Noel Brailsford, M.A.
1890.	John Edgar M'Fadyen, M.A.	1895.	William King Gillies, M.A.
1891.	James Holm, M.A.	1896.	George Donald Valentine, M.A.
1892.	Daniel Lamont, M.A.	1897.	Gavin Scott, M.A.
	1898.	John Lyle Morison, M.A.	

XI.—DEGREE AND PRIZE LIST.

LIST OF DEGREES

CONFERRED IN THE VARIOUS FACULTIES AND OF PRIZES AND CERTIFICATES OF HONOUR AWARDED IN THE SEVERAL CLASSES OF THE UNIVERSITY DURING THE YEAR ENDING 1ST MAY, 1899.

DOCTORS OF DIVINITY (D.D.).

- Rev. John Campbell Gibson, M.A., Missionary, Swatow, China, Member of the Board of Translators of the Scriptures into Chinese, now at home acting as Duff Lecturer on Evangelistic Theology, Free Church College, Edinburgh.
- Rev. William Kean, B.D., for nine years Missionary in Egypt, afterwards Minister of Ruthrieston Church, Aberdeen, and now Head Agent in Russia of the Bible Society.
- Rev. Thomas Buchanan Kilpatrick, B.D., Minister of Ferryhill Free Church, Aberdeen, recently nominated to Chair of Systematic Theology in the College at Winnipeg, Manitoba.
- Rev. James Lindsay, B.Sc., B.D., Minister of St. Andrew's, Kilmarnock.
- Rev. Robert Mackintosh, B.D., Professor of Ethics, Christian Sociology, and Apologetics, Lancashire Independent College, Manchester.
- Rev. John Paton, Minister of St. Michael's Parish, Dumfries.

DOCTORS OF LAWS (LL.D.).

- James Finlayson, M.D., Lecturer on Clinical Medicine, Western Infirmary, Glasgow.
- William Jacks, Merchant, Glasgow, sometime M.P. for Leith and for Stirling-shire.
- Horace Lamb, M.A., F.R.S., Professor of Mathematics in Owens College, Manchester.
- Henry Francis Pelham, M.A., President of Trinity College, and Camden Professor of Ancient History, Oxford.

BACHELORS OF DIVINITY (B.D.).

November, 1898.—Arthur Stanley Middleton, M.A.

April, 1899.

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|-----------------------------------|----------------------------------|
| Duncan Cameron, M.A. | John Murphy, M.A. |
| Dugald Clark, M.A. | John Archibald MacCormick, M.A. |
| John Alexander Duke, M.A. | John Alex. Coull Mackellar, M.A. |
| Andrew Hunter, M.A. | Donald Macleod, M.A. |
| George Lamb, M.A. | James Pollock, M.A. |
| John Stuart Leishman, M.A. | David Preston, M.A. |
| Wm. Jas. Sommerville Miller, M.A. | Duncan Ross, M.A. |
| James Donald Mitchell, M.A. | Neil Ross, M.A. |
| David Alexander Morrison, M.A. | Joseph Shillinglaw, M.A. |

BACHELORS OF LAWS (LL.B.).

November, 1898.

John Russell Aitken, M.A. Thos. Alex. Harvie Anderson, M.A., B.L.
Charles William Stewart, M.A.

April, 1899.

James Adam, M.A.¹ Thomas Smith Haran, M.A.
Michael Joseph Connell, B.A. Harry Lunsden, M.A., B.L.
Donald Currie, B.A. William Norman Raeburn, M.A.²
Robert Tennent, M.A.

BACHELORS OF LAW (B.L.).

April, 1899.

Jeffrey Drummond Bauchop, M.A. Henry James Donaldson.³
Alexander Cordiner, M.A. John Anderson Morrison.

DOCTORS OF MEDICINE (M.D.)

July, 1898.

I. WITH HONOURS.

John Wainman Findlay, M.B., C.M., Scotland. (*Thesis*—"The Choroid Plexuses of the Lateral Ventricles, their Anatomy, Functions, and Pathology (in relation specially to Insanity).")

II. WITH COMMENDATION.

Robert Gordon Bell, M.B., C.M., Scotland. (*Thesis*—"Enteric Studies, chiefly in Aberrant Types.")
James Dunlop Octavus Wilson, M.B., C.M., Scotland. (*Thesis*—"Adenoid Vegetations in the Nasopharynx: a Clinical and Pathological Study of 214 Cases.")

III. ORDINARY DEGREE.

William Allan, M.B., C.M., Scotland. (*Thesis*—"Angina Pectoris.")
Edwin Arthur Gibson, M.B., C.M., Scotland. (*Thesis*—"Fixed Retro-deviation of the Uterus, with special reference to Treatment.")
Robert Jamieson, M.B., C.M., Scotland. (*Thesis*—"Haemorrhoids or Piles.")
John Howie Martin, M.A., M.B., C.M., Scotland. (*Thesis*—"Some Cases of Head Injury.")
George Godfrey Macdonald, M.B., C.M., England. (*Thesis*—"Goitre or Derbyshire Neck.")
Alexander Lewis McMillan, M.B., C.M., Scotland. (*Thesis*—"Some Clinical Notes and Devices.")
Charles Edward Robertson, M.B., C.M., Scotland. (*Thesis*—"A Criticism of the Treatment of Puerperal Fever by Antistreptococcic Serum, with remarks on some of the commoner forms of the affection.")
Robert McCowan Service, M.B., C.M., Scotland. (*Thesis*—"A Case of so-called Acute Ascending or Landry's Paralysis, with some remarks.")
Henry William Williams, M.B., C.M., England. (*Thesis*—"Physiological Lochial Discharges.")

¹ With Distinction in (a) Civil Law, (b) Law of Scotland, (c) International Private Law.

² With Distinction in International Private Law.

³ With Distinction in Conveyancing.

James Wylie, M.B., C.M., Scotland. (*Thesis*—"Some Difficulties in the Diagnosis of Infectious Diseases, with relation to the Notification Act.")

November, 1898.

I. WITH COMMENDATION.

John Thomson Biernacki, M.B., C.M., India. (*Thesis*—"Secondary Microbic Invasion occurring in the course of the Commoner Fevers.")

Henry Hyslop Thomson, M.B., C.M., Scotland. (*Thesis*—"Epilepsy: a theory as to its probable cause, with some remarks regarding its relation to Insanity and Hysteria.")

Alfred Webster, M.B., C.M., England. (*Thesis*—"Cardiac Inhibition in relation to Cerebral Anaemia and Epileptiform Crises.")

II. ORDINARY DEGREE.

John Lithgow, M.B., C.M., Scotland. (*Thesis*—"Notes of a curious case showing similarity of Purpura and Reynaud's Disease.")

William Mason, M.B., C.M., Scotland. (*Thesis*—"Carcinoma of the Colon.")

William Alexander Mackay, M.B., C.M., Scotland. (*Thesis*—"Notes on some of the Diseases confused with Enteric Fever.")

Archibald Adam Warden, M.A., M.B., C.M., Scotland. (*Thesis*—"Some points in modern Genito-urinary Surgery—Urethritis, Cystitis, Stricture, Urinary Antisepsis, and Partial Retention.")

April, 1899.

I. WITH COMMENDATION.

Campbell Samson Marshall, M.B., C.M., Scotland. (*Thesis*—"Antistreptococcus Serum: its application in the treatment of Scarlatina Anginosa.")

Edward James Primrose, M.A., M.B., C.M., Scotland. (*Thesis*—"Notes on the Method and on the Diagnostic Value of the Serum Reaction (Widal's Test) in Enteric Fever; with a record of 149 examinations of Serum made in 57 cases of Enteric Fever, and in 22 other cases.")

II. ORDINARY DEGREE.

Dugald Maedougall, M.B., C.M., Scotland. (*Thesis*—"The Treatment of Typhoid Fever by Carbolic Acid.")

John Samuel Rosser, M.B., C.M., Wales. (*Thesis*—"The Literature of the Creosote Treatment of Pulmonary Tuberculosis; with an account of three cases in which large doses were exhibited.")

William John More Slowan, M.B., C.M., Scotland. (*Thesis*—"Version for Contraction of the Pelvic Brim; with an account of 21 cases personally conducted.")

William Semple Young, M.B., C.M., Scotland. (*Thesis*—"Cocaine as a Local Anaesthetic; with special reference to its use in Tooth Extraction.")

BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B., C.M.).

July, 1898.

I. HONOURS.

William Kilpatrick Hutton, M.A., Scotland.¹

¹ Mr. Hutton gains the Brunton Memorial Prize of Ten Pounds, awarded to the most distinguished Graduate in Medicine of the year.

II. ORDINARY DEGREE.

John Donald,	Scotland.	James Wm. Otto van Millingen,	Turkey
William Fullerton M'Ewen,		Charles David Picken,	Scotland.
	West Indies.	Thomas Boyd Riddall,	
Samuel M'Lean,	Scotland.	Charles Edward Cortis Stanford,	B.Sc. Scotland.
James Millar,	"		

November, 1898.

James Boyle,	Scotland.	Robert Hugh Meikle,	Scotland.
Martha Jane Gilmore Cox,	England.	George Moreland,	"
William Moyes Duff,	Scotland.	George Murray,	"
Christina Fraser,	"	May M'Mullen Pearson,	India.
Thomas Adams Stewart Gibb,	"	Robert Shanks,	Scotland.
James William Johnstone,	"	Alex. James Thompson Swann,	"
Archibald M'Glashan,	"		

BACHELORS OF MEDICINE AND BACHELORS OF SURGERY
(M.B., CH.B.).*July, 1898.*

I. HONOURS.

Robert Fullarton, M.A.,	Scotland.	William Webster,	Scotland.
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II. WITH COMMENDATION.

John James Buchan,	Scotland.	John Crow,	Scotland.
James Alexander Mitchell,	Ireland.	John Aitken,	"
Arthur James Ballantyne,	Scotland.	Robert Niven,	"
John Ronald Currie, B.A. (Oxon.),	"	James Blakely Miller,	"

III. ORDINARY DEGREE.

George Alexander,	Scotland.	Murdoch Macdonald,	Scotland.
Robert Fisher Ballantyne,	"	Archibald Turner Macewan,	"
Andrew Aitken Barclay,	"	Laurence Abel Mackenzie,	England.
Daisy Annabelle Bennett,	"	Dugald M'Kinlay,	Scotland.
Agnes Forbes Blackadder, M.A.,	"	Alfred Duncan Macnair,	"
John George Wilson Boleyn,	England.	Roderick Reid Macnicol, M.A.,	"
Theodore Belchambers Broadway,	India.	Alexander Matheson,	"
John Brunton,	England.	Percival Ambler Mitchell,	England.
Ranald Douglas Campbell,	Scotland.	William Gardner Neill,	"
James Carruthers, M.A.,	"	Percival Leslie Pearce,	West Indies.
Robert Carswell, M.A.,	"	Mabel Catharine Poulter,	England.
Robert Douglas, M.A.,	"	Jean Effie Prowse,	"
Kenneth M'Kenzie Duncan,	"	Marion Jamieson Ross,	Scotland.
Mary Gardner,	"	Joseph Wilkie Scott,	"
Alexander Garrow,	England.	John Macfarlane Sloan,	"
Jane Grant,	Scotland.	William Hart Steel, B.A.,	Australia.
David Sloan Harvey,	"	Francis Stevenson,	Scotland.
Edward William Reese Jones,	Wales.	Frederick Ernest Stokes,	England.
John Wilson Leitch, M.A.,	Scotland.	Peter Donald Strachan, M.A.,	Scot.
Alexander Millar Lindsay,	"	Thomas Morton Strang,	"
Mary Longmire,	England.	Andrew Taylor,	"
Eva M'Call,	Ireland.	Robert Andrew Hannan Watson,	"

October, 1898.

James Patterson Wilson,	Scotland.	William Wallace Keir,	India.
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November, 1898.

I. WITH COMMENDATION.

James Barrowman, Scotland.

II. ORDINARY DEGREE.

William Bennett,	Scotland.	Jane Lorimer,	Scotland.
James Symond Beveridge,	,,	Annie Louise M'Iroy,	Ireland.
Andrew Clark,	,,	Margaret Wallace Howie M'Neil,	
Robert Crawford,	,,		Scotland.
Binnie Dunlop,	,,	James M'Whir,	,,
Harold Smith Heap,	England.	Agnes Renton Robson,	,,
John Henderson,	Scotland.	John Shaw, M.A.,	,,
Ernest Fred. Lionel de Jersey,	England.	John Laird Simpson,	,,
Archibald Jubb,	Scotland.	Donald Sage Sutherland,	,,

DOCTORS OF SCIENCE (D.Sc.).

April, 1899.

Horatio Scott Carslaw, M.A.	Robert Kennedy, M.A., B.Sc., M.D.
Lawrence Crawford, B.Sc.	William Robert Lang, B.Sc.
	Walter Stewart, M.A., B.Sc.

BACHELORS OF SCIENCE (B.Sc.)

November, 1898.

In Pure Science.

Annabella Murdoch Clark.	William Anderson Lindsay, M.A. ¹
	Allan Martin, M.A.

In Engineering.

Allan Coats.	Hugh Munro.	John Warraek.
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April, 1899.

In Pure Science.

Robert John Tainsh Bell, M.A. ²	Robert Macfarlane Clark. ³
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In Engineering.

James Malcolm Bell.	James Rae M'Intosh.
Hjalmar Berg.	John Steel Nicholson.
Andrew Marshall Downie.	David Robertson. ⁴
John Gordon Henderson.	William Guthrie Strang. ⁵
Stephen Hutchison.	William Walker.

William Renfrew Wilson.

¹ With Special Distinction in Astronomy in addition to First-Class Honours in Mathematics and Natural Philosophy for M.A.

² With Special Distinction in (a) Mathematics, (b) Natural Philosophy, (c) Astronomy.

³ With Special Distinction in (a) Mathematics, (b) Natural Philosophy.

⁴ With Special Distinction in (a) Engineering and Drawing, (b) Electricity, Pure and Applied.

⁵ With Special Distinction in (a) Mathematics, (b) Natural Philosophy, (c) Engineering and Drawing, (d) Geology and Mineralogy.

CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

*November, 1898.*James Malcolm Bell.
Andrew Dunn.James Rae M'Intosh.
John Warrack.
Owen Richard Williams.*April, 1899.*Andrew Marshall Downie.
John Gordon Henderson.Campbell Macmillan, B.Sc.
William Guthrie Strang.
William Renfrew Wilson.

MASTERS OF ARTS (M.A.).

November, 1898.

I. WITH HONOURS.

With First-Class Honours in Classics, and Second-Class Honours in Mathematics and Natural Philosophy.

William Fulton (Uddingston).

With First-Class Honours in Mathematics and Natural Philosophy, and Second-Class Honours in English.

Elizabeth Pettigrew Taylor.

With Third-Class Honours in Classics, and Third-Class Honours in Mental Philosophy.

William Longmore Parkin.

With First-Class Honours in Classics.

Robert M'Ewan.

Helen Rutherford.

With Second-Class Honours in Classics.

William Fulton (Glasgow).

William Henderson Love.

With Third-Class Honours in Classics.

Alexander Auchinachie.

Andrew James Campbell Kerr.

With First-Class Honours in Mental Philosophy.

Hugh Reid Buchanan.

David Haunnington Tweeddale.

With Second-Class Honours in Mental Philosophy.

Robert Candlish.

William John Saull.

With First-Class Honours in Mathematics and Natural Philosophy.

Robert John Tainsh Bell.

Thomas Pullar.
Joseph White.*With Second-Class Honours in Mathematics and Natural Philosophy.*

Hugh Brown.

Peter Lowson.

With Third-Class Honours in Mathematics and Natural Philosophy.

John Jeffrey.

With First-Class Honours in English.—Helen Margaret Rule.

With Second-Class Honours in English.—Henry Murphy.

With Third-Class Honours in English.—Henry Givan Webber.

II. ORDINARY DEGREE.

William Boyd Berry.	Robert Wilson M'Gill.
John Bowie.	Gregor MacGregor.
Mary Isa Campbell.	Thomas Paterson (Glasgow).
Thomas Craig.	William Ramsay.
Gilbert Dick.	John Johnston Ross, B.A.
Thomas Walter Donald.	William Scott (Glasgow).
Robert Frame.	David Baird Smith.
John Wilson Fulton.	James Smith.
James Parlane Granger.	David Strachan.
Ronald Currie Kerr.	Agnes Mary Tannahill.
Margaret Elizabeth Lindsay.	Joseph Walker.
James White M'Cutcheon.	

April, 1899.

I. WITH HONOURS.

With First-Class Honours in Classics.—Samuel Francis Henderson Mackay.

With First-Class Honours in Mental Philosophy.—Archibald Main.

With First-Class Honours in English.

John Edgar.

Maude Gertrude May.

With Second-Class Honours in Classics.

Alexander Dunlop Lindsay.

Charles Gordon M'Ilravey.

With Second-Class Honours in Mathematics and Natural Philosophy.

James Moffat.

With Second-Class Honours in English.—Gordon Burns Nielson.

With Second-Class Honours in Modern Languages.—Jessie Lyon Gilchrist.

With Third-Class Honours in Modern Languages.—Minnie Louise Arthur.

II. ORDINARY DEGREE.

Alexander Bayne.	George Galbraith.
Robert Henderson Begg.	Brodie Smith Gilfillan.
James Macdougall Black.	Robert Scott Hamilton.
James Nimmo Brown.	Elizabeth Williamson Henderson.
Hector Charles Cameron.	James Hood.
James Clisholm.	Thomas Macmillan Hunter.
George Condie.	Malcolm Hutton.
Alexander Cross.	Mina Macarthur Hutton.
Harry Diamond.	William Hyslop.
Samuel Hugh Dow.	James Leckie.
Annie Dunlop.	John Victor M'Neill.
Charles Henry Dyer.	Francis William Milne.
Richard Lister Franks.	James Milroy.

John Mitchell.	Thomas Steele.
William Topping Morton.	William David Henderson Stevenson.
John Muir.	Alexander Strang.
Andrew Napier.	Walter Ross Taylor.
Barbara Pagan Osborne.	James Templeton.
Thomas Pattison.	Thomas Mitchell Walker.
John Rafferty.	Robert Watt.
Daniel Falconer Riddell.	Robert Tait Wells.
William Scobie.	Robert George White.
James Scrymgeour.	James Robertson Sweet Wilson.
Andrew Shanks.	Samuel Wilson.
Alexander Smith.	Peter Taylor Young.
Alexander MacEwen Smith.	Isobel Yuill.

DEPARTMENTAL CERTIFICATES.

I. FOR DEGREE OF B.D.

FIRST DEPARTMENT—*October, 1898.*

Cameron, Duncan, M.A.	Middleton, Arthur Stanley, M.A.
Clark, Dugald, M.A.	Miller, Wm. Jas. Sommerville, M.A.
Gillespie, James, M.A.	Mitchell, James Donald, M.A.
Howie, Robert, M.A.	Morrison, David Alexander, M.A.
Hunter, Andrew, M.A.	Murphy, John, M.A.
Lamb, George, M.A.	Plant, Thomas Agenet, B.A.
Lamont, Daniel, M.A.	Preston, David, M.A.
MacCormick, John Archibald, M.A.	Ross, Neil, M.A.
Mackellar, John Alexander Coull, M.A.	Shillinglaw, Joseph, M.A.
Macleod, Donald, M.A.	

FIRST DEPARTMENT—*March, 1899.*

Pollock, James, M.A.	Ross, Duncan, M.A.
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SECOND DEPARTMENT—*March, 1899.*

Anderson, Archibald, M.A.	Miller, Wm. Jas. Sommerville, M.A.
Cameron, Duncan, M.A.	Mitchell, James Donald, M.A.
Clark, Dugald, M.A.	Morrison, David Alexander, M.A.
Hunter, Andrew, M.A.	Murphy, John, M.A.
Lamb, George, M.A.	Plant, Thomas Agenet, B.A.
Liddle, David Fraser, M.A.	Preston, David, M.A.
MacCormick, John Archibald, M.A.	Reid, John, M.A.
Mackellar, John Alexander Coull, M.A.	Ross, Neil, M.A.
Macleod, Donald, M.A.	Shillinglaw, Joseph, M.A.

II. FOR DEGREES IN LAW.

OLD REGULATIONS.

I. FOR DEGREE OF LL.B.

1. IN CIVIL LAW.

October, 1898.

Aitken, John Russell, M.A.	King, Walter, M.A.
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2. IN LAW OF SCOTLAND.

October, 1898.—Brown, Laurence Robertson, M.A.

April, 1899.—Liddell, John, M.A.

3. IN CONVEYANCING.

October, 1898.—Aitken, John Russell, M.A.

4. IN PUBLIC LAW.

October, 1898.

Anderson, Thos. Alex. Harvie, M.A. Brown, Laurence Robertson, M.A.

April, 1899.

Liddell, John, M.A. Lumsden, Harry, M.A., B.L.

5. IN CONSTITUTIONAL LAW AND HISTORY.

October, 1898.

Anderson, Thos. Alex. Harvie, M.A. King, Walter, M.A.
Stewart, Charles William, M.A.

II. FOR DEGREE OF B.L.

1. IN LATIN.

October, 1898.

Thomson, Peter Geddes. Turnbull, John Colledge.

2. IN ENGLISH LITERATURE.

April, 1899.

Thomson, Peter Geddes. Turnbull, John Colledge.

3. IN MATHEMATICS.

October, 1898.—Scott, Alexander Malcolm.

4. IN CIVIL LAW.

October, 1898.—Aitken, John Russell, M.A.

5. IN LAW OF SCOTLAND.

October, 1898.—Russell, William Clark.

April, 1899.—Cordiner, Alexander, M.A.

6. IN CONVEYANCING.

October, 1898.—Aitken, John Russell, M.A.

April, 1899.

Cordiner, Alexander, M.A. Morrison, John Anderson.

7. IN MEDICAL JURISPRUDENCE.

October, 1898.—Russell, William Clark.

April, 1899.—Morrison, John Anderson.

NEW REGULATIONS.

I. FOR DEGREE OF LL.B.

IN JURISPRUDENCE.

October, 1898.

Cockburn, Francis Montague, M.A. Macdiarmid, Duncan Stewart, B.A.
Currie, Donald, B.A. Murray, William Meikle, M.A.

Wark, John Lean, M.A.

April, 1899.

Adam, James, M.A.	Johnston, John Dalrymple, M.A.
Bauchop, Jeffrey Drummond, M.A.	Murray, Arthur Erskine, M.A.
Connell, Michael Joseph, B.A.	Pringle, Wm. Mather Rutherford, M.A.
Haran, Thomas Smith, M.A.	Raeburn, William Norman, M.A.
	Tennent, Robert, M.A.

IN PUBLIC INTERNATIONAL LAW.

October, 1898.

Currie, Donald, B.A.	Raeburn, William Norman, M.A.
	Wark, John Lean, M.A.

April, 1899.

Adam, James, M.A.	Lindsay, Norman Graham, M.A.
Johnston, John Dalrymple, M.A.	Murray, Arthur Erskine, M.A.

IN CIVIL LAW.

October, 1898.

Dunlop, Malcom, M.A.	Macdiarmid, Duncan Stewart, B.A.
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April, 1899.

Arroll, Walter, M.A.	Buchanan, Hugh Reid, M.A.
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IN LAW OF SCOTLAND.

October, 1898.

Arroll, Walter, M.A.	Cameron, Donald Cunninghame, M.A.
	Murray, Arthur Erskine, M.A.

April, 1899.

Cockburn, Francis Montague, M.A.	Paton, James Bowie, M.A.
Girvan, John, M.A.	Philips, William, M.A.
Macalister, William Grierson, M.A.	Wright, Thomas Grieve, M.A.

IN CONSTITUTIONAL LAW AND HISTORY.

October, 1898.

Murray, Arthur Erskine, M.A.	Pringle, William, M.A.
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April, 1899.

Adam, James, M.A.	Girvan, John, M.A.
Arroll, Walter, M.A.	Lindsay, Norman Graham, M.A.
Buchanan, Hugh Reid, M.A.	Paton, James Bowie, M.A.
Connell, Michael Joseph, B.A.	Raeburn, William Norman, M.A.

IN CONVEYANCING.

October, 1898.—Adam, James, M.A.*April, 1899.*

Bauchop, Jeffrey Drummond, M.A.	Pringle, Wm. Mather Rutherford, M.A.
Currie, Donald, B.A.	Raeburn, William Norman, M.A.
Haran, Thomas Smith, M.A.	Tennent, Robert, M.A.

IN POLITICAL ECONOMY (80 Lecture Course).

October, 1898.

Arroll, Walter, M.A.	Pringle, William, M.A.
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DEGREE AND PRIZE LIST.

IN INTERNATIONAL PRIVATE LAW.

October, 1898.

Adam, James, M.A.	Murray, Arthur Erskine, M.A.
Cockburn, Francis Montague, M.A.	Murray, William Meikle, M.A.
Dunlop, Malcom, M.A.	Raeburn, William Norman, M.A.
Macdiarmid, Duncan Stewart, B.A.	Wark, John Lean, M.A.

April, 1899.—Philips, William, M.A.

IN FORENSIC MEDICINE.

October, 1898.

Cameron, Donald Cunninghame, M.A.	Currie, Donald, B.A.
Murray, Arthur Erskine, M.A.	

April, 1899.

Cockburn, Francis Montague, M.A.	Macalister, William Grierson, M.A.
Wright, Thomas Grieve, M.A.	

II. FOR DEGREE OF B.L.

IN LOGIC.

April, 1899.—Love, John Alex. Anderson.

IN MORAL PHILOSOPHY.

April, 1899.—Cowan, William Christie.

IN LATIN.

October, 1898.—Girvan, Henry Stuart.

IN CIVIL LAW.

April, 1899.

Archibald, James Rennie.	Mackay, Donald.
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IN LAW OF SCOTLAND.

October, 1898.—Mitchell, Walter Rankin, B.A.*April, 1899.*—Davidson, William George.

IN CONVEYANCING.

April, 1899.

Bauchop, Jeffrey Drummond, M.A.	Donaldson, Henry James.
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IN INTERNATIONAL PRIVATE LAW.

October, 1898.—Donaldson, Henry James.

IN FORENSIC MEDICINE.

October, 1898.—Mitchell, Walter Rankin, B.A.*April, 1899.*—M'Cutcheon, James White, M.A.

III. FOR DEGREES OF MB., Ch.B.

FIRST PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (B., Botany; Z., Zoology; P., Physics; C., Chemistry):

October, 1898.

Anderson, James Richard Sunner (P.).	Macfarlane, Alexander A. (B., P.).
Anderson, Wm. Kirkpatrick (B., P.).	MacGregor, Gregor (B., Z.).
Auld, Jeanie (B., Z.).	Macintyre, Alexander (B., P.).
Ballantyne, Thomas (B., Z., P.).	M'Kellar, John Matheson (B., Z.).
Banks, Alexander Grey (B., P.).	M'Kenzie, Ivy, M.A., (B., Z.).
Bell, Andrew Farm (B., P.).	M'Kenzie, John C. (B., Z., P.).
Bowie, Thomas Fraser (P.).	M'Lauchlan, Jane S. (B., Z., P., C.).
Bringan, James Campbell (B., Z., C.).	M'Laren, Thomas (P., C.).
Bruce, Robert (B.).	M'Lean, John (C.).
Cameron, Agnes Wallace (Z.).	Macphail, Dugald Henry (B.).
Campbell, Jane (Z.).	M'Vail, James Roy (Z.).
Campbell, Robert Harold (B., P.).	M'Whan, Andrew Alexander (P., C.).
Carmichael, Daniel Lyall (C.).	Makins, Richard (Z., C.).
Carruthers, Alexander Adam (P., C.).	Manson, Robert Harry (P., C.).
Chapman, Ethel Lily (B., Z.).	Martyn, Harry S., M.A. (B., Z., P., C.).
Crawford, Hugh Wm. (B., Z., P., C.).	Milne, William Alexander (B., C.).
Cross, John (P.).	Mitchell, Alexander John (B.).
Dick, Alexander (B., P.).	Mort, Spencer (B., P.).
Donaldson, Hugh M'Millan (C.).	Nicolson, James Stuart (B., P.).
Dow, Andrew Robertson (P., C.).	Penman, David (Z., C.).
Dow, William (B., C.).	Pryce, Ethel J. M. (B., Z.).
Elder, William (C.).	Rankine, Thomas (B., P., C.).
Ferguson, John, M.A. (P., C.).	Reid, Andrew (B., P.).
Forsyth, Thomas (Z., C.).	Reid, John Mark (B., P.).
Gilmour, John Ritchie (P., C.).	Richmond, Thomas (B.).
Gilmour, Wm. Macmillan (B., P.).	Riddell, David (B., Z., P., C.).
Gordon, John Miller (C.).	Robertson, Peter Hamilton (B., P.).
Harvey, William (B., P.).	Robertson, Robert T. C. (B., P.).
Hodge, Ronald Dingwall (B., P.).	Ross, Charles James (B.).
Hume, John Gordon (P.).	Russell, James (B., C.).
Hunter, John Brown Dalzell (B., P.).	Shaw, Lawrence D. (B., Z., P., C.).
Hutchison, Neil M'Coll (B., P., C.).	Sinclair, James John (P., C.).
Jackson, Ernest D. (B., Z., P., C.).	Smart, Margaret Hossack (Z., C.).
Kay, William Fletcher (B., P., C.).	Smith, John W. (B., Z., P., C.).
Kelly, James Thompson (Z.).	Smith, Robert Cassels (Z., P.).
Kennedy, Alex. Dingwall (B., P., C.).	Stevenson, John (P., C.).
Kerr, Andrew Miller (B., P.).	Stevenson, William D. H. (B.).
Kerr, Douglas Robertson (P.).	Sutherland, Arthur W. (B., C.).
Lauder, Robert (B., C.).	Sutherland, Peter L. (B., P.).
Laurie, Robert (Z., P.).	Talbert, Elizabeth Taylor (Z.).
Leckie, Robert Wright (B., P.).	Thom, John Allan (P.).
Leitch, Archibald (B., P.).	Thomas, John R. (B., Z., P., C.).
Lewis, Stanley Everard (C.).	Turner, William Wagner (B., P.).
Lochhead, Ethel Macleod (B., Z.).	Unsworth, John (B.).
Love, Thomas Walker (B., Z., P.).	Waddell, Janet Gardner (Z., P.).
Lovett, Thomas (B., Z.).	Walker, James (B., C.).
Lusk, Joseph Paterson (B., C.).	Wallace, George (B., Z.).
M'Cabe, John Bertram (B., Z.).	Warwick, Hugh Fleming (B., C.).
M'Culloch, James Duff (B., P.).	Watson, William N. W. (B., P.).
Macdonald, Coll (C.).	Watt, Alexander Brown (Z.).
M'Dougall, Daniel D., M.A., (Z., P., C.)	Wilson, James (B., P.).

March, 1899.

- Adam, Robert (Z., C.).
 Anderson, James R. S. (B., Z., C.).
 Auld, Jeanie (P., C.).
 Beattie, George (Z., C.).
 Bisset, Archibald Grainger (C.).
 Black, Annie M'Caig (P., C.).
 Bogle, John Shaw M. (Z.).
 Bolton, William Thomas (Z., C.).
 Bradford, Robert George (Z.).
 Bringan, James Campbell (P.).
 Brodie, Thomas (B.).
 Brown, John (B., Z.).
 Browning, Carl Hamilton (Z., C.).
 Bruce, Robert (C.).
 Cameron, Agnes Wallace (P., C.).
 Cameron, Mary Charlotte (C.).
 Campbell, Robert Harold (Z.).
 Campbell, Thomas M., M.A. (Z.).
 Carruthers, Alexander A. (B., Z.).
 Cartwright, Robert Peplow (B., C.).
 Connal, Andrew (Z.).
 Copestake, Thomas G. (B., Z., P.).
 Crawford, John Craig (Z., C.).
 Cross, John (B., Z.).
 Cunningham, Weir Burns (Z., C.).
 Davies, Hugh Collin (B., Z., P., C.).
 Dick, Mitchell Innes (P., C.).
 Dickie, David (Z., C.).
 Duncan, Jessie Galloway (P., C.).
 Dykes, David Garfield (Z., C.).
 Eadie, James (Z., C.).
 Ferguson, James (B., C.).
 Finlator, Cunison Charles (Z., C.).
 Gilmour, Jane Reid Foulds (C.).
 Gilmour, William Macmillan (Z.).
 Gordon, George (*).
 Greig, Alexander (Z., C.).
 Hanson, John, M.A. (Z., C.).
 Hardy, Margaret (P., C.).
 Harris, Saul Hyman (B.).
 Harvey, William (Z., C.).
 Huey, John Monette (B., P.).
 Hume, John Gordon (B., Z., C.).
 Hunter, Alexander (B., Z.).
 Kelly, James Thompson (B., C.).
 Kelly, John Muir (Z., C.).
 Kerr, John (Z., C.).
 Laurie, Robert (B., C.).
 Leggat, Alexander (P.).
 Leiper, Robert Thomson (Z., C.).
 M'Cahe, John Bertram (C.).
 M'Culloch, James Duff (Z., C.).
 M'Cutecheon, Joseph Glaister (Z.).
 M'Iroy, Jane H., M.A., (Z., C.).
 Macintyre, David D. F. (Z., C.).
 Mackay, Charles Gordon (Z.).
 M'Kellar, John Mathieson (P., C.).
 M'Kenzie, John Chancellor (C.).
 Maclean, Alice Wesley (C.).
 M'Millan, Alexander Stewart (Z.).
 M'Murdo, Norman Thomas (Z.).
 MacNaughtan, Norman S. (B., Z.).
 M'Vail, James Roy (C.).
 Macvea, James Anthony (Z., P.).
 M'Whan, Andrew Alexander (B.).
 Makins, Richard (B., P.).
 Martin, Anna Pollock (P., C.).
 Millar, Peter (Z., C.).
 Miller, Eliza Jane (P., C.).
 Milne, William Alexander (P.).
 Mitchell, Alexander John (Z., P.).
 Mitchell, David Robertson (Z., C.).
 Mitchell, Isabel Deane (P.).
 Mort, Spencer (Z., C.).
 Morton, John Baird (Z., C.).
 Muir, Gavin (Z.).
 Muir, Gavin Denholme (Z.).
 Munro, Alexander Hugh (Z.).
 Penman, David (B., P.).
 Pryce, Ethel Jane Mildred (C.).
 Rae, William Murdoch (B., P.).
 Raeburn, George (Z., C.).
 Rankin, William (B., Z., P., C.).
 Richmond, George (B., Z., P., C.).
 Robertson, Peter Hamilton (Z., C.).
 Robertson, Wm. (Blackwood) (B.P.C.).
 Ross, Campbell, (Z.).
 Russell, James (P.).
 Schlomka, Robert C. J. (B., P.).
 Shand, William Garrow (Z., C.).
 Smart, Margaret Hossack (B., P.).
 Smith, John Macgregor (Z., C.).
 Somerville, James Alexander (B., P.).
 Stevenson, John (B., Z.).
 Stevenson, John Black (Z., C.).
 Stevenson, William D. H. (Z., C.).
 Stewart, Jessie Marie (P.).
 Stewart, Norman Burgess (Z.).
 Sutherland, Arthur William (Z., P.).
 Sutherland, John Wilson (Z., C.).
 Sutherland, Peter Lindsay (Z., C.).
 Talbert, Elizabeth Taylor (B., C.).
 Thom, John Allan (B.).
 Waddell, Janet Gardner (B.).
 Walker, Joseph, M.A., (Z., P.).
 Wallace, George (C.).
 Watson, Alex. M'Millan (Z.).
 Watson, William N. W. (Z.).
 Watt, Alexander Brown (C.).
 Wells, Robert Tait (B., C.).
 Weston, John Forrest (B.).
 Wilson, James (Z., C.).
 Wright, Eldred (Z., C.).
 Young, Hugh (Z., P.).
 Young, John (Mt. Vernon) (Z., C.).

SECOND PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (A., Anatomy: P., Physiology; M., Materia Medica and Therapeutics):

October, 1898.

Aikman, Matthew, M.A., (A., P., M.).	Kerr, William Bryce (M.).
Anderson, John (P.).	King, Alexander (A.).
Arthur, George (M.).	Laidlaw, James Dickson (A., P.).
Barbour, Gavin (P., M.).	Lambie, John Francis (M.).
Barclay, James Oastler (M.).	Leitch, Alexander (A., P.).
Bathgate, Thomas Thomson (M.).	Leys, Norman Maclean (P., M.).
Binning, Alexander (M.).	Lickley, James Dunlop (M.).
Birch, Alexander (P., M.).	Livingston, Donald M'Farlane (M.).
Boyes, Auguste (A.).	Lockhart, John (A., P., M.).
Brown, Harry Egerton (M.).	Logan, Alexander (M.).
Brown, William Herbert (M.).	Logan, David Dale (A., P.).
Brownlie, John Douglas (M.).	Longwill, David (A., P.).
Buchan, George Frederick (P., M.).	M'Dougall, James William (A., P.).
Cairns, Patrick Thomas (M.).	M'Feat, Walter James (A., P.).
Campbell, Gertrude Jane (M.).	M'Kinnon, Geo. Steventon (A., M.).
Cathcart, Edward Provan (M.).	Mackinnon, James (M.).
Clark, John Thomson (P., M.).	M'Phee, Burgess (A., P.).
Clark, Robert (M.).	M'Pherson, James, M.A., (A., P.).
Craig, James (P.).	MacRae, Duncan M., M.A., (A., P., M.).
Crichton, Charles Peter Garvie (P.).	Mains, Jacob (M.).
Cuthbert, Charles C., M.A. (M.).	Mair, Andrew (M.).
Davie, Gregor Hugh Grant (P.).	Marshall, Robert M'Nab (M.).
Dick, James, M.A., (P., M.).	Martin, Allan, M.A., (M.).
Doig, Alexander (A., P.).	Millar, James, M.A., (A., P., M.).
Downie, John (A., P., M.).	Moir, Peter (M.).
Duncan, John Pinkerton, B.Sc. (M.).	Munro, Alexander (A., P., M.).
Eadie, George Balfour (A., P., M.).	Patrick, James (A., P., M.).
Findlay, Leonard (M.).	Potter, Mary Emma (A., P.).
Forrest, John (M.).	Reid, Peter Mackenzie (P., M.).
Fraser, Alexander, M.A., (M.).	Richmond, John Duncan (M.).
Fraser Matthew William (P., M.).	Ritchings, Mary Ann Thompson (P.).
Garrey, Gilbert (P., M.).	Russell, David (M.).
Gartshore, David George S. (P., M.).	Shannon, David (P., M.).
Gemmell, James (A.).	Sinclair, Agnes Brymner (P., M.).
Gillespie, Edward (M.).	Stewart, Andrew (M.).
Girvan, William (M.).	Strathearn, John (A., P., M.).
Goodman, Hyam, M.A., (A.).	Smith, Elizabeth Helen (A., P.).
Gordon, Helen Mary (P.).	Talbot, Mabel (M.).
Gourlay, Charles A., M.A., (A., P., M.).	Thom, Robert Bryers (P.).
Gourlay, James Dickson (A., P.).	Turnbull, James Cameron (M.).
Gracie, John (P.).	Wainright, Albert Ernest (M.).
Greig, Lila Stephenson (M.).	Walker, William Dinning (A., P.).
Gunson, Charles Herbert (A., P., M.).	White, George (A., P., M.).
Harlan, George Pillans (M.).	Wildish, George Henry (P.).
Henry, James Macpherson (M.).	Wilson, Thomas Watson (M.).
Hope, Charles Milburn (A., P.).	Wilson, William Webster Watt (A.).
Howden, Catherine Spence (A., P.).	Wright, Hugh Patrick (P., M.).
Jack, Thomas Hamilton (M.).	Young, John (M.).
Kennedy, John (M.).	

April, 1899.

- Adams, Martha (A., P., M.).
 Anderson, John (A.).
 Anderson, Thomas (A., P.).
 Archibald, William (P.).
 Auld, Robert Wellwood (A., P.).
 Barr, John Stoddart (A., P.).
 Birch, Alexander (A.).
 Brown, Wm. Macalister (A., P., M.).
 Cairns, Patrick Thomas (A.).
 Cameron, Samuel James (A., P.).
 Campbell, John James Young (M.).
 Campbell, Robert David (A., P.).
 Chapman, Edward Seymour (A.).
 Clark, Annabella Murdoch, B.Sc., (M.).
 Clark, George Herbert (P.).
 Cook, James Bertie Wylie (A., P.).
 Craig, James (A., M.).
 Currie, Andrew (A., P.).
 Davidson, David Beattie (A., P.).
 Davidson, James, M.A., (M.).
 Dickson, Frank Lindsay (A.).
 Dunlop, Reginald Nairn (A., P.).
 Farrar, William Watt (A., P.).
 Ferguson, George (A., P.).
 Fletcher, Duncan Johnston (A.).
 Gartshore, David George S. (A.).
 Gemmell, James (P.).
 Gilmour, John Ritchie (P.).
 Girvan, William (A., P.).
 Gordon, Helen Mary (A.).
 Gourlay, James Dickson (M.).
 Gow, Archibald, (A., P.).
 Gracie, John (M.).
 Granger, Andrew Parlane (A., M.).
 Gregor, John (A., P.).
 Harlan, George Pillans (A., P.).
 Head, Leslie Charles B. (A., P.).
 Henry, Francis Joseph (A., P.).
 Hope, Charles Milburn (M.).
 Howden, Catherine Spence (M.).
 Hunter, Douglas Wm. (A., P., M.).
 Hunter, Matthew (A., P.).
 Isbister, Wm. Johnstone (A., P.).
 Jones, Pierce (P.).
 Kerr, William Bryce (A., P.).
 Kilpatrick, Daniel Ross (A., P.).
 King, Alexander (P., M.).
 Laidlaw, James Dickson (M.).
 Lambie, John (M.).
 Lambie, John Francis (A., P.).
 Leitch, Alexander (M.).
 Lochrane, Francis J. (A., P., M.).
 Longwill, David (M.).
 M'Feat, Walter James (M.).
 M'Glashan, William F. (A., P.).
 M'Laren, Thomas (M.).
 M'Millan, George Williamson (P.).
 M'Pherson, James, M.A., (M.).
 Magoveny, Edward (A., P., M.).
 Masson, William Alex. (A., P.).
 Miller, Janet Thomson (M.).
 Mills, William Archd. (A., M.).
 Milne, William Alex. (A., P., M.).
 Moir, Alexander Robert (A., P.).
 Moorhouse, Alice (A., P.).
 Muir, Alan Howie (A., P.).
 Orr, Robert (A.).
 Paterson, Robert (M.).
 Paton, John (A., P.).
 Pirret, Mary Janet (A., P., M.).
 Potter, Mary Emma (M.).
 Prentice, James Nimmo (A., P.).
 Ramsey, Robert (A., P.).
 Rankin, Thomas Hood (M.).
 Reid, Andrew (P.).
 Ritchie, Margaret Mitchell (M.).
 Ritchings, Mary Ann Thompson (A.).
 Robertson, Wm. (Kilmarnock) (A., P.).
 Rodger, Thos. Ritchie (A., P.).
 Rodger, William George (A., P.).
 Rogers, Norman Cumming (A.).
 Ross, Andrew Taylor (A.).
 Ross, Charles J., B.A., (A., P., M.).
 Ross, Edward Henry (M.).
 Sloan, Agnes Bankier (P., M.).
 Sloan, Elizabeth Macfarlane (P., M.).
 Smith, Andrew James (P.).
 Smith, Elizabeth Helen (M.).
 Smith, James (P.).
 Spence, David (M.).
 Steel, Donald (A., P.).
 Stewart, Andrew (A.).
 Stewart, John, M.A. (P.).
 Swan, Robert Rennie (P.).
 Thom, Robert Bryers (A.).
 Todd, James Nathaniel (A., P.).
 Tomkinson, Joseph Goodwin (A., P.).
 Turnbull, John (A., M.).
 Walker, William Dinning (M.).
 Wallace, George Smith (A., P.).
 Waugh, Peter Millar (M.).
 White, Robert George (A., P.).
 Williams, Morgan Watkin (A.).
 Wilson, David Ashley (A.).
 Wilson, James (M.).
 Wilson, Wm. Webster Watt (M.).
 Wylie, Robert (A.).
 Wylie, Wm. Robertson (A., P., M.).
 Young, Henrietta Fraser (A., P.).

THIRD PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (P., Pathology; M., Medical Jurisprudence and Public Health):

October, 1898.

Bennett, James Freeborn (M.).	Millar, Ramsay (M.).
Brownlie, Andrew (P., M.).	Miller, Hugh (M.).
Calland, Thomas Bullough (P.).	Milne, Ernest Wardlaw (M.).
Chalmers, James Robert (M.).	Mitchell, Ebenezer, M.A., (P., M.).
Cowan, David Maclure (P., M.).	Picken, Thomas Stevens (P., M.).
Craig, John (P., M.).	Rennie, Robert (P., M.).
Crawford, George Morris (P., M.).	Riddell, Wm. Alexander (M.).
Crerar, William (M.).	Robin, Arthur (M.).
Davidson, Sarah (P., M.).	Simon, David Ap (M.).
Dickie, James Austin (P., M.).	Smith, David James (M.).
Drummond, James (M.).	Smith, John Steele (P., M.).
Ferguson, Hugh Campbell (M.).	Spencer, Maud (P., M.).
Gardner, George (P., M.).	Stalker, Wm. Stewart (P., M.).
Gardner, John (P., M.).	Steven, Peter Alexander (M.).
Gibson, William (M.).	Stewart, Alfred George (M.).
Jamieson, Nicol (P., M.).	Stewart, Frederic R., M.A., (P., M.).
Kerr, Andrew (M.).	Thomson, Charles Pinkerton (M.).
Love, Andrew (P., M.).	Thomson, William Brown (M.).
MacDonald, James Hogg (M.).	Tierney, Thomas Bird (P., M.).
M'Fayden, Peter (M.).	Walker, Edythe Marjorie S. (P., M.).
M'Gilchrist, John (M.).	Watson, Alex. Laurie, M.A., (M.).
M'Kendrick, Anderson Gray (P.).	Wells, Alex. Simpson, M.A., (M.).
Maclean, Charles Forbes (M.).	Whyte, Robert Orr, M.A., (M.).
Maclean, Geo. Todd, M.A., (P., M.).	Wilson, Alexander (P.).
MacLeod, Norman Forbes (M.).	Wright, William (M.).
Maclure, Wm. Johnston (P., M.).	

April, 1899.

Aikman, Matthew, M.A., (P.).	Fraser, Alexander, M.A., (P.).
Arthur, George (P., M.).	Fraser, Matthew Wm. (P., M.).
Barbour, Gavin (P., M.).	Garrey, Gilbert (P., M.).
Barclay, James Oastler (P., M.).	Gillespie, Edward (P., M.).
Bathgate, Thomas Thomson (P.).	Goodman, Hyam, M.A., (P., M.).
Binning, Alexander (P.).	Gourlay, Charles Aikman, M.A., (P.).
Boyes, Auguste (P., M.).	Greig, Lila Stephenson (P.).
Brown, Harry Egerton (P., M.).	Gunson, Charles Herbert (P.).
Brown, William Herbert (P.).	Harrington, Archd. Wilson (P., M.).
Brownlie, John Douglas (P.).	Henry, James Macpherson (P.).
Burns, William Adam (P., M.).	Huey, Isaac Mackay (P., M.).
Campbell, Gertrude Jane (P., M.).	Leys, Norman Maclean (P., M.).
Carruthers, Thomas, M.A., (P., M.).	Lickley, James Dunlop (P.).
Cathcart, Edward Provan (P.).	Liston, Mary Forbes (P., M.).
Clark, John Thomson (P., M.).	Livingston, Donald M'Farlane (P.).
Clark, Robert (P.).	Lockhart, John (P., M.).
Crichton, Charles P. Garvie (P., M.).	Logan, Alexander (P.).
Cuthbert, Charles C., M.A., (P., M.).	Logan, David Dale (P., M.).
Davidson, Arch. Wm. Wallace (P., M.).	Luman, Robert (P., M.).
Douglas, David Curr (M.).	M'Kendrick, Anderson Gray (M.).
Downie, John (P.).	M'Kinnon, George Steventon (P.).
Findlay, Leonard (P.).	Mackinnon, James (P.).

MacIurkin, Alfred Robert (P., M.).	Reid, Peter Mackenzie (P.).
M'Phee, Burgess (P., M.).	Richmond, John Duncan (P., M.).
MacRae, Duncan M., M.A., (P., M.).	Russell, David (P.).
Mains, Jacob (P.).	Scott, James, M.A., (M.).
Mair, Andrew (P.).	Sharp, Edgar William (P., M.).
Marshall, Jean Marion Farie (P., M.).	Shearer, James (P., M.).
Marshall, Robert M'Nab (P.).	Simon, David Ap (P.).
Martin, Allan, M.A., B.Sc., (P.).	Smith, Christian C. Wood (P., M.).
Millar, James, M.A., (P., M.).	Strathearn, John (P., M.).
Miller, Norman M'Leod (P., M.).	Taylor, Robert (P., M.).
Moir, Peter (P., M.).	Turnbull, James Cameron (P.).
Morrison, Daniel (M.).	White, George (P.).
Munro, Alexander (P.).	Wilson, Alexander (M.).
Myhre, Karen Margrethe (P.).	Wilson, Thomas Watson (P., M.).
Neill, Thomas, (P., M.).	Wright, Hugh Patrick (P.).
Pollock, William Barr Inglis (P.).	Young, John (P.).

FIRST, SECOND, AND THIRD PROFESSIONAL EXAMINATIONS.

The following passed with distinction in the subjects indicated:

April, 1899.

FIRST EXAMINATION.

In Zoology and in Chemistry—Spencer Mort; in Botany—Andrew Alexander M'Whan; in Zoology—Weir Burns Cunningham, James Eadie, Charles Gordon Mackay, James Anthony Macvea, Peter Millar, William Garrow Shand, John Macgregor Smith, William David Henderson Stevenson; in Physics—Arthur William Sutherland; in Chemistry—John Gordon Hume, Peter Lindsay Sutherland.

SECOND EXAMINATION.

In Anatomy and in Materia Medica and Therapeutics—William Macalister Brown; in Anatomy—Samuel James Cameron; in Physiology—Robert Wellwood Auld, Donald Steel; in Materia Medica and Therapeutics—Annabella Murdoch Clark, B.Sc., Charles Milburn Hope, David Longwill, James Macpherson, M.A., Edward Magoveny, William Alexander Milne, Mary Janet Pirret, Agnes Bankier Sloan, Elizabeth Macfarlane Sloan, William Dinning Walker.

THIRD EXAMINATION.

In Pathology—George Arthur, John Douglas Brownlie, John Thomson Clark, Charles Campbell Cuthbert, M.A., Archibald William Wallace Davidson, Leonard Findlay, Alexander Fraser, M.A., Lila Stevenson Greig, James Dunlop Lickley, Mary Forbes Liston, Donald M'Farlane Livingston, Andrew Mair, William Barr Inglis Pollock, George White, John Young; in Medical Jurisprudence and Public Health—John Duncan Richmond, Alexander Wilson.

FOURTH PROFESSIONAL EXAMINATION.

The following passed the whole Examination (Surgery and Clinical Surgery; Practice of Medicine and Clinical Medicine; Midwifery):

June, 1898.

Aitken, John.	Barclay, Andrew Aitken.
Alexander, George.	Barrowman, James.
Ballantyne, Arthur James.	Bennett, Daisy Annabelle.
Ballantyne, Robert Fisher.	Bennett, William.

Blackadder, Agnes Forbes, M.A.	Macnair, Alfred Duncan.
Boleyn, John George Wilson.	Macnicol, Roderick Reid, M.A.
Brunton, John.	Matheson, Alexander.
Buchan, John James.	Miller, James Blakely.
Campbell, Ranaid Douglas.	Mitchell, James Alexander.
Carruthers, James, M.A.	Mitchell, Percival Ambler.
Carswell, Robert, M.A.	Neill, William Gardner.
Crow, John.	Niven, Robert.
Currie, John Ronald, B.A. (Oxon.).	Pearce, Percival Leslie.
Douglas, Robert, M.A.	Poulter, Mabel Catharine.
Duncan, Kenneth M'Kenzie.	Prowse, Jean Effie.
Fullarton, Robert, M.A.	Ross, Marion Jamieson.
Gardner, Mary.	Scott, Joseph Wilkie.
Garrow, Alexander.	Sloan, John Macfarlane.
Grant, Jane.	Steel, William Hart, B.A.
Harvey, David Sloan.	Stevenson, Francis.
Jones, Edward William Reese.	Stokes, Frederick Ernest.
Leitch, John Wilson, M.A.	Strachan, Peter Donald, M.A.
Lindsay, Alexander Millar.	Strang, Thomas Morton.
Longmire, Mary.	Taylor, Andrew.
M'Call, Eva.	Watson, Robert Andrew Hannan.
Macewan, Archibald Turner.	Webster, William.
Mackenzie, Laurence Abel.	Wilson, James Patterson.
M'Kinlay, Dugald.	

October, 1898.

Beveridge, James Symond.

The following passed in the subjects indicated (S., Surgery and Clinical Surgery ; P., Practice of Medicine and Clinical Medicine ; M., Midwifery) :

July, 1898.

Broadway, Theodore Belchambers (S.).	Lorimer, Jane (P., M.).
Cassells, Alex. Henderson (M.).	Macdonald, Murdoch (S., P.).
Clark, Andrew (S., M.).	M'Ilroy, Annie Louise (S., M.).
Crawford, Robert (S., M.).	M'Neil, Margaret W. H. (S., M.).
Cullen, John (M.).	M'Neill, Margaret Elizabeth (M.).
Davie, John Lithgow (M.).	M'Whir, James (P., M.).
Dunlop, Binnie (S., M.).	Robson, Agnes Renton (P., M.).
Green, James Garden (S., M.).	Shaw, John, M.A., (S., M.).
Heap, Harold Smith (S., M.).	Simpson, John Laird (S., M.).
Henderson, John (P., M.).	Sutherland, Donald Sage (P., M.).
Jersey, Ernest F. L. de (P., M.).	Swan, James Douglas Carnon (M.).
Jubb, Archibald (P., M.).	Turner, Henry Nisbet (M.).
Keir, William Wallace (P., M.).	Whiteford, Sara (P., M.).

October, 1898.

Clark, Andrew (P.).	Lorimer, Jane (S.).
Crawford, Robert (P.).	M'Ilroy, Annie Louise (P.).
Dunlop, Binnie (P.).	M'Neil, Margaret W. H. (P.).
Heap, Harold Smith (P.).	M'Whir, James (S.).
Henderson, John (S.).	Robson, Agnes Renton (S.).
Jersey, Ernest F. L. de (S.).	Shaw, John, M.A., (P.).
Jubb, Archibald (S.).	Simpson, John Laird (P.).
Keir, William Wallace (S.).	Sutherland, Donald Sage (S.).

IV.—FOR DEGREE OF B.Sc.

OLD REGULATIONS.

IN ZOOLOGY.

October, 1898.—Cumming, Robert, B.D.

REGULATIONS OF 1890.

IN ENGINEERING SCIENCE.

NATURAL PHILOSOPHY.

October, 1898.—Coats, Allan.

NAVAL ARCHITECTURE.

April, 1899.—Camino, Jacinto Zenon.

REGULATIONS OF 1892.

A. IN PURE SCIENCE.

FIRST SCIENCE EXAMINATION—PORTION.

October, 1898.

Auld, Jeanie (Zoology, Botany).
 Boyd, William, M.A. (Chemistry).
 Fraser, Kate (Botany).
 Henderson, James Alex. Russell (Natural Philosophy, Chemistry).
 Hutton, Malcolm (Chemistry).
 Lynn, Robert Rankine (Chemistry).
 M'Crick, Thomas (Mathematics).
 Matheson, Alexander (Zoology, Botany).
 Napier, Alex. Harper (Botany, Chemistry).
 Stewart, Alfred Walter (Mathematics).

April, 1899.

Auld, Jeanie (Chemistry).
 Donald, Robert (Chemistry).
 Douglas, Donald, M.A., (Zoology).
 Fulton, William, M.A., (Chemistry).
 Kerr, James Rutherford (Natural Philosophy).
 Love, Wm. Henderson, M.A., (Natural Philosophy, Chemistry).
 M'Ilroy, Jane Hamilton, M.A., (Chemistry).
 Napier, Alex. Harper (Zoology).
 Smith, George Goldie (Zoology).

FINAL SCIENCE EXAMINATION—PORTION.

October, 1898.

¹Bell, Robert John Tainsh (Mathematics, Natural Philosophy).
 Buchan, George Frederick (Physiology).
 Clark, Annabella Murdoch (Botany).
 Dunlop, James Slater, M.A. (Mathematics, Natural Philosophy, Astronomy).
²Lindsay, William Anderson, M.A. (Astronomy).
 Martin, Allan, M.A. (Zoology).

¹ With Special Distinction in Mathematics and Natural Philosophy.

² With Special Distinction in Astronomy.

Stewart, Robert William (Chemistry).

¹ White, Joseph (Mathematics, Natural Philosophy).

April, 1899.

² Anderson, William (Astronomy).

Auld, Robert Wellwood (Physiology, Zoology).

² Bell, Robert John Tainsh, M.A. (Astronomy).

¹ Clark, Robert Macfarlane (Mathematics, Natural Philosophy).

Walker, Alice Rosalie (Physiology).

White, Robert George (Physiology).

B. IN ENGINEERING.

FIRST SCIENCE EXAMINATION—PORTION.

October, 1898.

Burn, William George (Chemistry).

Dawe, John Nanscawen (Higher Natural Philosophy).

Downie, Andrew Marshall (Higher Natural Philosophy).

Gunson, Ernest Whinery (Chemistry).

Johnstone, John Gavin (Ordinary Mathematics, Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).

La Torre, Charles (Ordinary Mathematics).

Leitch, Archibald (Higher Mathematics, Ordinary Natural Philosophy).

MacFarlane, Charles Selby Lennox (Higher Natural Philosophy).

Mackay, Hugh Alexander (Ordinary Natural Philosophy).

Marie, Carolus (Chemistry, Chemical Laboratory).

Nicholson, John Steel (Higher Mathematics, Higher Natural Philosophy, Physical Laboratory and Chemistry).

Robertson, David (Higher Mathematics, Higher Natural Philosophy, Chemistry, Chemical Laboratory).

Shearer, William Valentine (Higher Mathematics, Chemistry).

Young, George Macmillan (Ordinary Mathematics, Ordinary Natural Philosophy).

April, 1899.

Aitchison, James (Higher Mathematics).

Ballantyne, William Henry (Chemistry).

Berg, Hjalmar (Higher Natural Philosophy).

Blair, Robert (Ordinary Mathematics, Ordinary Natural Philosophy).

Brown, John (Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).

Bull, Einar (Higher Mathematics, Higher Natural Philosophy, Chemistry, Chemical Laboratory).

Coubrough, Anthony Cathcart, M.A., (Higher Mathematics).

Craig, James (Ordinary Natural Philosophy, Physical Laboratory).

Dawe, John Nanscawen (Higher Mathematics).

Dyer, Robert Morton (Higher Mathematics, Higher Natural Philosophy, Physical Laboratory).

Edwards, Edmund Baker (Ordinary Natural Philosophy, Physical Laboratory).

Henderson, John Gordon (Higher Natural Philosophy).

Hutchison, Stephen (Higher Natural Philosophy).

Inglis, George Alexander (Higher Mathematics, Higher Natural Philosophy, Chemistry, Chemical Laboratory).

Johnstone, John Gavin (Higher Mathematics).

Leitch, Archibald (Physical Laboratory, Chemistry).

Mackay, Hugh Alexander (Chemistry, Chemical Laboratory).

¹ With Special Distinction in Mathematics and Natural Philosophy.

² With Special Distinction in Astronomy.

- MacMillan, Hugh Miller (Higher Natural Philosophy, Physical Laboratory).
 Macmillan, Niel Boyd (Higher Mathematics, Ordinary Natural Philosophy).
 M'Nabb, James (Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).
 Marie, Carolus (Higher Mathematics, Ordinary Natural Philosophy).
¹Strang, William Guthrie (Higher Natural Philosophy).
 Vost, James (Chemistry, Chemical Laboratory).
 Walker, William (Higher Natural Philosophy).
 Williamson, Alexander (Ordinary Mathematics).
²Wilson, Alfred John (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
 Young, George Macmillan (Higher Mathematics, Chemistry, Chemical Laboratory).

FINAL SCIENCE EXAMINATION—PORTION.

October, 1898.

- Berg, Hjalmar (Electricity—Pure and Applied).
 Downie, Andrew Marshall (Engineering and Drawing).
 Hutchison, Stephen (Engineering and Drawing).
 MacFarlane, Charles Selby Lennox (Electricity—Pure and Applied).
 M'Intosh, James Rae (Engineering Laboratory—Electrical).
 Munro, Hugh (Engineering and Drawing, Engineering Laboratory—Electrical).
 Warrack, John (Engineering and Drawing, Geology and Mineralogy).

April, 1899

- Barbour, John Hutchison (Engineering).
 Bell, James Malcolm (Engineering and Drawing).
 Berg, Hjalmar (Engineering and Drawing).
 Coubrough, Anthony Cathcart, M.A., (Engineering Laboratory—Electrical).
 Douglas, Charles Stuart (Engineering).
 Downie, Andrew Marshall (Engineering Laboratory—Electrical).
 Henderson, John Gordon (Engineering and Drawing, Engineering Laboratory—Electrical).
 Hutchison, Stephen (Electricity—Pure and Applied).
 M'Intosh, James Rae (Engineering and Drawing).
 Nicholson, John Steel (Engineering and Drawing, Engineering Laboratory—Electrical).
³Robertson, David (Engineering and Drawing, Electricity—Pure and Applied).
 Shearer, William Valentine (Engineering and Drawing).
⁴Strang, William Guthrie (Geology and Mineralogy).
 Walker, William (Engineering and Drawing).
 Wilson, William Renfrew (Engineering and Drawing).

V.—FOR DEGREE OF M.A.

OLD REGULATIONS.

I. IN CLASSICAL LITERATURE.

October, 1898.

- | | |
|-------------------------|------------------|
| Granger, James Parlane. | Smith, James. |
| Ramsay, William, | Strachan, David. |

¹ With Special Distinction in Higher Natural Philosophy.² With Special Distinction in Higher Mathematics.³ With Special Distinction in Engineering and Drawing and in Electricity—Pure and Applied.⁴ With Special Distinction in Geology and Mineralogy and (1898) in Engineering and Drawing.

April, 1899. — Scobie, William.

2. IN MENTAL PHILOSOPHY.

October, 1898.

Robb, Alexander Masson. Saull, William John (II. Hon.).
Smith, John Seaton.

April, 1899.

Burns, Andrew. Craig, Arthur Allan.

3. IN MATHEMATICS AND NATURAL PHILOSOPHY.

October, 1898.

Edgar, Samuel Crawford Blair. Kerr, Ronald Currie.

April, 1899.

MacColl, Neil. Moffat, James (II. Hon.).
Robb, Alexander Masson.

NEW REGULATIONS.

A.—LANGUAGE AND LITERATURE.

LATIN.

October, 1898.

Anderson, John (II. Hon.).	M'Callum, John Duncan.
Atkinson, Mabel (II. Hon.).	M'Ewan, Robert (I. Hon.).
Auchinachie, Alexander (III. Hon.).	Mackay, Francis.
Barnes, Joseph.	Mackay, Samuel Francis H. (I. Hon.).
Brown, Alexander.	Mackintosh, James Semple.
Christie, John Cairns.	M'Michael, John.
Conacher, John.	Macnair, Alexander Wood.
Dixon, Sidney.	M'Phun, Frances Mary.
Duffy, Walter.	Maguire, Peter.
Dyer, Charles Henry.	Milne, Francis William.
Frame, Robert.	Mitchell, John.
Fulton, William (Glasgow) (II. Hon.).	Paterson, Walter Mundell.
Hodge, Donald Grant.	Rankin, Jessie Deans.
Hood, James.	Rutherford, Helen (I. Hon.).
Hyslop, William.	Shanks, Andrew.
Jeffrey, John.	Stirling, Francis Purser Holbrooke.
Kerr, Andrew Jas. C. (III. Hon.).	Walker, Joseph.
Lazenby, Paul Helme.	Wason, Alexander.
Leckie, James.	White, Robert Grange.
Lindsay, Alex. Dunlop (II. Hon.).	Wilson, Alex. Cunningham.
Livingston, Margaret Hay.	Wilson, Alex. Robertson.
Love, William Henderson (II. Hon.).	Wilson, Samuel.
MacAlister, Malcolm.	Wishart, Hugh Ritchie.

April, 1899.

Aitken, George.	Armstrong, Thomas.
Anderson, Thomas.	Austin, James.
Andrew, William Hunter.	Bain, James.
Archibald, Constance Helen Margaret.	Barbour, Thomas.

Barr, Robert William.	Mackinnon, Grace Alice.
Bennie, Catherine.	M'Lellan, Neil.
Borland, Alexander.	M'Millan, Andrew.
Burt, Sarah M'Allister.	Macmillan, Archibald Morven.
Cameron, Mary Clow.	M'Millan, John (Bonhill).
Carstairs, George.	M'Millan, John (Glasgow).
Chalmers, Maggie.	M'Millan, Margaret Carson.
Chisholm, John.	M'Murtrie, John Malcolm.
Coats, William Holmes.	M'Murtrie, Thomas Robert.
Cosh, James.	Macpherson, Alexander Hugh.
Cranston, Andrew.	M'Quistan, Dougald Black (II. Hon.).
Crawford, Hamilton.	Macvea, Janet Annie.
Crichton, Alexander Pender.	Main, Archibald Naismith.
Dale, Robert Wilson.	Martin, John.
Dick, David Auchinvole.	Menzies, Henry Lindsay.
Douglas, William.	Millar, George Smith.
Dryer, Oliver.	Milne, Robert.
Dunlop, Alexander Slater.	Milne, Robert Kerr.
Elder, Arthur Granville Hepburn.	Mitchell, Alexander.
Ferrier, Douglas.	Mitchell, Peter.
Fleming, Archibald.	Montgomerie, William.
Fletcher, Angus Peter.	Morton, Alexander Dickie.
Forbes, Augustine W. Scudamore.	Morton, Christian Pettigrew.
Fordyce, William Lamb.	Moyes, James.
Forfar, David.	Napier, Andrew.
Fraser, Alexander.	Nicol, Roderick Macdonald.
Fraser, Isabella Milligan.	Paterson, Colin.
Gavin, Michael.	Paterson, William.
Gibson, Agnes.	Philps, George Pixton.
Gordon, John.	Pryde, John Marshall.
Gow, Louis Niel.	Rawson, Walter Amos.
Hay, John Primrose.	Richardson, John Macdonald.
Henderson, Elizabeth Williamson.	Rogen, Alfred Sands.
Henderson, William Watson.	Rook, Thomas.
Hunter, David Guthrie.	Scott, Margaret.
Hunter, James.	Scott, Robert.
Jamieson, William James.	Shann, George.
Jeffrey, Thomas.	Smith, Donald (Glasgow).
King, Archibald.	Smith, John (Falkirk).
Kinloch, John Laing.	Sneddon, Robert William.
Lang, Archibald.	Spence, John Ryrie.
Leys, Kenneth King Munsie.	Stewart, John.
Lindsay, James Hamilton.	Stewart, John Henderson.
Lindsay, Muriel Giffen.	Strathern, Robert Fairley.
Lochhead, Margaret Alexander.	Sutherland, William.
Low, Thomas.	Taylor, Henry.
Lowe, Peter, B.Sc.	Thompson, Isabella Maclean.
Lusk, David Colville.	Thomson, David Alexander.
M'Donald, David Paterson.	Thomson, Kyle.
M'Guire, Robert Clark.	Torrance, James.
Macharg, Ebenezer Maitland.	Turner, William Young.
MacInnes, Joseph.	Waddell, Peter Hately.
MacInnes, Neil.	Wilson, Jeannie.
M'Iver, Alexander Matheson.	Winning, Thomas.
Mackenzie, Alexander Ronaldson.	Young, Archibald.
Mackinnon, Alexander.	Young, George Alexander William.

GREEK.

October, 1898.

Alexander, Thomas.	Mackay, Samuel Francis H. (I. Hon.).
Anderson, John (II. Hon.).	M'Pherson, Peter.
Atkinson, Mabel (II. Hon.).	Main, Archibald.
Auchinachie, Alexander (III. Hon.).	Morton, Alexander Dickie.
Brunton, David Stewart.	Robertson, William.
Craig, Thomas.	Rutherford, Helen (I. Hon.).
Dyer, Charles Henry.	Shanks, Andrew.
Fulton, William (Glasgow) (II. Hon.).	Shaw, Alexander.
Hamilton, Robert John.	Stirling, Francis Purser Holbrooke.
Hamilton, Robert Scott.	Taylor, Walter Ross.
Kerr, Andrew James C. (III. Hon.).	Walker, William Lind.
Lindsay, Alexander D. (II. Hon.).	Wason, Alexander.
Love, William Henderson (II. Hon.).	Wilson, Samuel.
M'Ewan, Robert (I. Hon.).	

April, 1899.

Anderson, Thomas.	Macharg, Ebenezer Maitland.
Armstrong, Thomas.	MacInnes, Neil.
Bain, James.	M'Iver, Alexander Matheson.
Barr, Robert William.	Mackinnon, Alexander.
Bayne, Alexander.	M'Murtrie, Thomas Robert.
Borland, Alexander.	M'Quistan, Dougald Black (II. Hon.).
Chalmers, Humphrey.	Main, Archibald Naismith.
Chisholm, John.	Martin, John.
Clark, William Weir.	Mitchell, Peter.
Coats, William Holmes.	Mort, Frederick.
Crawford, Hamilton.	Moyes, James.
Dale, Robert Wilson.	Muir, George.
Dewar, Robert Scott.	Nicolson, John.
Dryer, Oliver.	Philps, George Pixton.
Edgar, John Henderson.	Rawson, Walter Amos.
Faichney, John.	Reid, John.
Fordyce, William Lamb.	Richardson, John Macdonald.
Gillies, Daniel.	Roberts, Eric James.
Grieve, William Crawford.	Rook, Thomas.
Harvey, George Thomson.	Shann, George.
Henderson, Walter Lewis.	Shearer, John (Glasgow).
Jamieson, William James.	Smith, Alexander MacEwen.
Levine, Rachel.	Stewart, John Logan.
MacBean, Alexander.	Stirling, John.
M'Clure, May Speirs.	Struthers, James.
M'Donald, David Paterson.	Turner, William Young.
Macdonald, Walter George.	Waddell, Peter Hately.
MacEwen, Sydney Melrose.	Young, Archibald.

ENGLISH.

October, 1898.

Adam, Henry Henry.	Henderson, James.
Anderson, Norman Carrick.	Hendrie, Margaret M'Kinnon.
Beith, Peter.	Levine, Rachel.
Edgar, John (I. Hon.).	Lindsay, Margaret Elizabeth.
Fraser, Margaret Coats.	Lochhead, John (I. Hon.).

Masterton, Robert Shaw.
 Murphy, Henry (II. Hon.).
 Pryde, John Marshall.
 Rule, Helen Margaret (I. Hon.).

Taylor, Elizabeth Pettigrew (II. Hon.).
 Turner, Robert Lister.
 Walker, Joseph.
 Webber, Henry Givan (III. Hon.).

April, 1899.

Alexander, Thomas.
 Arnott, John Thomas.
 Auld, William.
 Black, James Macdougall.
 Blackwood, Thomas Millar.
 Brown, James Nimmo.
 Burnside, Jessie.
 Cameron, William Francis.
 Campbell, Daniel Kirkwood.
 Carstairs, George.
 Chisholm, James.
 Clark, James Miller.
 Conacher, John.
 Condie, George.
 Cuthbertson, John Montague.
 Dow, Samuel Hugh.
 Edward, William Alfred.
 Fairweather, Wallace Cranston.
 Fraser, James.
 Gibson, Agnes.
 Gibson, John Gemmel.
 Gilfillan, Brodie Smith.
 Gillies, John.
 Gilmour, John (Glasgow).
 Goldie, Alexander.
 Goold, Marshall Newton.
 Gray, John (Airdrie).
 Guthrie, Alice Margaret Blyth.
 Hamilton, Robert John.
 Hamilton, Robert Scott.
 Henderson, Elizabeth Williamson.
 Hunter, David Guthrie.
 Hutton, Malcolm.
 Hutton, Mina Macarthur.
 Keen, Isaac.
 Low, Thomas.
 M'Callum, John Duncan.
 M'Dougall, Peter.
 Mackay, Samuel Francis Henderson.

M'Leish, Alexander.
 M'Leish, David James.
 M'Michael, John.
 M'Millan, Katharine Thomson (I. Hon.).
 M'Neill, John Victor.
 M'Phun, Frances Mary.
 Matheson, Alexander.
 May, Maude Gertrude (I. Hon.).
 Miller, Stewart Napier.
 Milligan, James Aitchison.
 Milne, Francis William.
 Mitchell, Norman Reid.
 Morison, Norman John.
 Mort, Frederick.
 Muir, John.
 Neilson, Gordon Burns (II. Hon.).
 Paterson, Colin.
 Pattison, Thomas.
 Rankin, Jessie Deans.
 Reid, John.
 Riddell, John.
 Robertson, Berkeley Hope.
 Robertson, Howard Hope.
 Runciman, James Watson.
 Runciman, William.
 Salmond, George.
 Scott, Robert.
 Shanks, Andrew.
 Shaw, Walter.
 Sladden, Edith Marian.
 Stewart, John Logan.
 Thomson, Jane Chisholm.
 Thomson, Kyle.
 Walker, Thomas Mitchell.
 Walker, William Lind.
 Wilson, James Robertson Sweet.
 Wilson, Samuel.
 Wiseman, William Reid.

FRENCH.

October, 1898.

Levine, Rachel.

M'Millan, Peter.

April, 1899.

Arthur, Minnie Louise (III. Hon.).
 Burt, Sarah M'Allister.
 Chalmers, Maggie.
 Gibson, John Gemmel.
 Gilchrist, Jessie Lyon (II. Hon.).
 Hendrie, Margaret M'Kinnon.

Hunter, Thomas Macmillan.
 Hutton, Mina Macarthur.
 Lamb, Agnes Charlotte.
 M'Curtain, Mary Gillespie.
 Macpherson, Alex. Hugh.
 Osborne, Barbara Pagan.

GERMAN.

April, 1899.

Arthur, Minnie Louise (III. Hon.). Gilchrist, Jessie Lyon (II. Hon.).
 Binnie, Marion King. Henderson, Elizabeth Williamson.

HEBREW.

April, 1899.

Runciman, James Watson.

B.—MENTAL PHILOSOPHY.

LOGIC AND METAPHYSICS.

October, 1898.

Bayne, Alexander.	Jeffrey, John.
Beith, Peter.	M'Lellan, John.
Brown, James Nimmo.	Osborne, George Edward Bell.
Buchanan, Hugh Reid (I. Hon.).	Parkin, William L. (III. Hon.).
Campbell, David White Buist	Torrance, James.
Fleming.	Tweeddale, David Hannington
Candlish, Robert (II. Hon.).	(I. Hon.).
Conacher, John.	Young, John Finlayson.
Dow, Samuel Hugh.	

April, 1899.

Alexander, Robert.	Jones, Thomas.
Arnott, John Thomas.	Keir, David Robert Mackenzie.
Begg, Robert Henderson.	King, Maurice John.
Binnie, Marion King.	Kirkhope, Hugh.
Blue, Dugald.	Lazenby, Paul Helme.
Boyd, Mary Russell.	Levine, Rachel.
Callander, Mary.	Lindsay, Edith Margaret.
Cameron, Mary Clow.	Lochhead, Alice Mary.
Chalmers, John Stuart.	Lowe, Theodore David.
Clark, James Miller.	M'Ara, Jenny.
Donaldson, James Robertson.	MacBean, Alexander.
Douglas, William.	MacDonald, James George.
Dow, William Robert.	Macdonald, Walter George.
Duffy, Walter.	MacDonald, William Elder.
Elliot, John James.	M'Dougall, Thomas.
Faichney, John.	M'Ilravey, Charles Gordon.
Forsyth, William.	M'Iver, Peter John.
Gillies, William Alexander.	M'Kail, James.
Goldie, Alexander.	Mackay, Francis.
Goold, Marshall Newton.	Mackintosh, James Semple.
Graham, Thomas.	M'Leish, David James.
Guthrie, John.	MacMillan, Peter.
Hamilton, Robert Cumming.	Macnab, William.
Henderson, James.	M'Pherson, Peter.
Hendrie, Margaret M'Kinnon.	Main, Archibald (I. Hon.).
Herriot, Catherine Willox.	Martin, John Allan.
Hume, James.	Masterton, Robert Shaw.
Hutchison, Arthur Scott.	Miller, Steuart Napier.
Jack, James.	Mitchell, John.
Jones, Owen Lloyd.	Mitchell, Norman Reid.

Muir, George.
 Orr, John.
 Paterson, Walter Mundell.
 Paul, John.
 Pickering, Mabel King.
 Rae, Margaret Isobel.
 Rankin, Jessie Deans.
 Roberts, Eric James.
 Robertson, William.
 Shanks, Andrew.
 Shearer, John (Glasgow).
 Sinton, Alexander.
 Smith, Thomas Macdonald.
 Spreull, George John.
 Steel, James.
 Steel, James Hall.

Stevenson, George Hope.
 Stewart, George.
 Struthers, James.
 Tait, William Marshall.
 Taylor, David Gladstone.
 Templeton, James.
 Thomson, Archie Duncan.
 Turner, Stanley Horsfall.
 Waddell, James.
 Wason, Alexander.
 Watt, Hugh.
 Wilson, James Robertson Sweet.
 Wilson, Samuel.
 Wiseman, William Reid.
 Young, Charles Alexander.

MORAL PHILOSOPHY.

October, 1898.

Buchanan, Hugh Reid (I. Hon.).	Smith, Peter George.
Candlish, Robert (II. Hon.).	Turner, Robert Lister.
Connor, Agnes Muir.	Tweeddale, David H. (I. Hon.).
Parkin, William Longmore (III. Hon.).	Walker, Joseph.
Sellar, Alexander.	Walker, Thomas Mitchell.

April, 1899.

Anderson, Norman Carrick.	Hamilton, Robert Scott.
Andrew, Alexander Somerville.	Harkness, John.
Armour, Helen Maxwell.	Hood, James.
Black, Archibald Campbell.	Hutton, William.
Black, James Macdougall.	Hutton, Malcolm.
Boyd, Winifred.	Hutton, Mina Macarthur.
Brechin, Margaret Blackley.	Kirkhope, Hugh.
Brown, Alexander.	Leckie, James.
Buik, George.	M'Ara, Jenny.
Cameron, William Francis.	M'Cririck, Thomas.
Carmichael, James.	MacDonald, James George.
Carrick, Peter.	MacDonald, William Elder.
Clark, Donald James.	M'Dougall, Hugh.
Cromar, Arthur Henry.	M'Harey, Charles Gordon.
Dick, David Auchinvole.	Mackay, Samuel Francis Henderson.
Douglas, Robert.	M'Lellan, John.
Dow, Samuel Hugh.	Macleod, Kenneth Olaus.
Dyer, Charles Henry.	M'Murtrie, John Malcolm.
Fairweather, Wallace Cranston.	Maenab, William.
Fotheringham, James Boath.	Main, Archibald (I. Hon.).
Fulton, Margaret Graham.	Martin, John Allan.
Galbraith, George.	Millar, George Smith.
Gemmell, John Justice.	Millar, William.
Gilfillan, Brodie Smith.	Milne, Robert.
Gillies, John.	Milroy, James.
Gillies, William Alexander.	Mitchell, John.
Gilmour, John (Blackford).	Morton, Alexander Dickie.
Gilmour, John (Glasgow).	Morton, William Topping.
Hamilton, John M'Farlane.	Motherwell, Margaret Jeffrey.

Mungo, David Brown.	Shearer, John (Armada).
Neilson, Thomas.	Simpson, Mary.
O'May, Daniel.	Small, Andrew John.
Orr, John.	Smith, Alexander.
Osborne, Barbara Pagan.	Stark, Margaret Maxwell.
Osborne, George Edward Bell.	Stewart, John Henderson.
Paterson, Walter Mundell.	Strang, Alexander.
Pryde, John Marshall.	Symington, Thomas Struthers.
Rafferty, John.	Tannahill, Margaret Garrow.
Rankin, William.	Taylor, Henry.
Robertson, James.	Thomson, Alexander Dunbar.
Rogers, Alfred Sands.	Thomson, David Alexander.
Runciman, William.	Turner, George Douglas.
Russell, Alexander.	Waddell, James.
Russell, Susan Jack.	Watt, Robert.
Rutherford, William Steel.	Williamson, Alexander.
Salmond, James.	Wilson, Samuel.
Scott, Robert Lowrie.	Wishart, Hugh Ritchie.
Scott, William.	Wylie, Jessie Reid.
Shanks, Andrew.	Young, James.
Shaw, Alexander.	

POLITICAL ECONOMY.

October, 1898.

Cromar, Arthur Henry.	Milligan, James Aitchison.
M'Cutcheon, James White.	Walker, Thomas Mitchell.

April, 1899.

Begg, Robert Henderson.	Mackintosh, James Semple.
Blue, Dugald.	M'Neill, James.
Brown, James Nimmo.	Millar, George Smith.
Buchanan, Thomas.	Milroy, James.
Buik, George.	Mitchell, George.
Busby, William Edward.	Mitchell, John.
Campbell, Daniel Kirkwood.	Morton, William Topping.
Dow, Samuel Hugh.	Muir, James Chrystal.
Dyer, Charles Henry.	O'May, Daniel.
Faichney, John.	Pollock, James Ferrier.
Faulds, George.	Russell, Alexander.
Franks, Richard Lister.	Scrymgeour, James.
Gow, Louis Niel.	Sinclair, James.
Henderson, James.	Spreull, George John.
Jones, Thomas.	Steel, James.
Lamont, Alexander Buchanan.	Stirling, James Neilson.
M'Dougall, Thomas.	Thomson, Kyle.
M'Farlane, Hugh.	Turner, Malcolm Kerr.
MacInnes, Joseph.	Williamson, Alexander.
M'Iver, Peter John.	Young, John Finlayson.

THEORY, HISTORY, AND ART OF EDUCATION.

October, 1898.

Hendrie, Margaret M'Kinnon.	Mitchell, John.
Hood, James.	Scott, Robert Lowrie.

April, 1899.

Aird, William.
 Blue, Dugald.
 Buchanan, Thomas.
 Burnside, Jessie.
 Copeland, John.
 Cranston Andrew.
 Docherty, John.
 Douglas, William.
 Drury, John.
 Gibson, John Gemmel.
 Goldie, Alexander.
 Gow, Louis Niel.
 Gray, John (Airdrie).
 Guthrie, Alice Margaret Blyth.
 Hamilton, Robert John.
 Hay, John M'Dougall.
 Henderson, Andrew.
 Houston, William.
 Hunter, James.
 Irvine, Robert.
 Isbister, Lucy Hay.
 Jordan, James William.
 King, Archibald.
 Lamont, Alexander Buchanan.
 M'Dougall, Peter.
 M'Dougall, Thomas.
 Maclean, John.
 M'Murtrie, Thomas Robert.

Mitchell, George.
 Morison, Norman John.
 Mort, Frederick.
 Morton, David.
 Motherwell, Margaret Jeffrey.
 Paterson, Colin.
 Paterson, Thomas (Blantyre).
 Patterson, John.
 Pattison, Thomas.
 Peebles, Thomas.
 Pollock, George Alexander.
 Porteous, James Smith.
 Reid, John.
 Riddell, John.
 Runciman, William.
 Rusk, Robert Robertson.
 Russell, Susan Jack.
 Salmond, George.
 Shaw, Alexander.
 Sinclair, James.
 Stewart, John Henderson.
 Strachan, Alexander.
 Templeton, James.
 Thomson, Jane Chisholm.
 Waddington, Cecilia Jane.
 Walker, John (Glasgow).
 Whiteford, Matthew.
 Wylie, Jessie Reid.

C.—SCIENCE.

MATHEMATICS.

October, 1898.

Beaumont, George.
 Bell, Robert John Tainsh (I. Hon.).
 Berry, William Boyd.
 Boyd, Winifred.
 Brown, Hugh (II. Hon.).
 Brown, James Nimmo.
 Cameron, Thomas Bell.
 Carmichael, James.
 Crawford, Hamilton.
 Cromar, Arthur Henry.
 Diamond, Harry.
 Dick, Gilbert.
 Donald, Thomas Walter.
 Dow, Samuel Hugh.
 Elder, Arthur Granville Hepburn.
 Fulton, Wm. (Uddingston) (II. Hon.).
 Gilfillan, Brodie Smith.
 Gow, Louis Niel.
 Hodge, Donald Grant.
 Hutchison, Arthur Scott.
 Jeffrey, John (III. Hon.).

Johnston, Lucy Perfect.
 Lazenby, Paul Helme.
 Lighbody, Isaac Whiteford.
 Lowe, Theodore David.
 Lowson, Peter (II. Hon.).
 M'Crick, Thomas.
 M'Donald, David Paterson.
 M'Gill, Robert Wilson.
 M'Gregor, George Alexander.
 Mackail, James.
 M'Neill, John Victor.
 Merry, William Robert Wilson.
 Milligan, James Aitchison.
 Milne, Robert.
 Milne, Robert Kerr.
 Mitchell, Alexander.
 Mitchell, Norman Reid.
 O'May, Daniel.
 Osborne, Barbara Pagan.
 Pullar, Thomas (I. Hon.).
 Rankin, Jessie Deans.

Robertson, Berkeley Hope.
 Robertson, Hugh Brown Glyn.
 Smith, Alexander MacEwen.
 Smith, David Baird.
 Smith, Ernest Gardiner.
 Smith, William Begbie.
 Spens, Janet.

Stirling, James Neilson.
 Tait, William Marshall.
 Tannahill, Agnes Mary.
 Turner, Stanley Horsfall.
 Walker, William Lind.
 White, Joseph (I. Hon.).

April, 1899.

Adam, Henry Harper.
 Aird, William.
 Aitken, George.
 Alexander, Robert.
 Anderson, John.
 Armour, Helen Maxwell.
 Austin, James.
 Bell, Walter William Aitken.
 Bennie, Catherine.
 Brown, John Campbell.
 Brown, William.
 Bryan, David.
 Burt, Sarah M'Allister.
 Cameron, John Reid.
 Cameron, William Francis.
 Campbell, Daniel Kirkwood.
 Chalmers, David Keir.
 Chalmers, Humphrey.
 Condie, George.
 Cosh, James.
 Cunningham, Robert.
 Dalziel, Samuel James.
 Dewar, Robert Scott.
 Docherty, John.
 Drew, Charles Milligan.
 Drury, John.
 Dunlop, Annie.
 Dunn, John Shaw.
 Faulds, George.
 Ferrier, Douglas.
 Finlay, Archibald Barbour.
 Forbes, Augustine W. Scudamore.
 Fordyce, William Lamb.
 Franks, Richard Lister.
 Frew, John.
 Gallagher, Mary Theresa.
 Gemmell, John Justice.
 Gillies, Daniel.
 Gillies, William Alexander.
 Goodfellow, Robert Kerr.
 Graham, Thomas.
 Grant, Robert.
 Hamilton, John M'Farlane.
 Hay, John M'Dougall.
 Henderson, Andrew.
 Henderson, Walter Lewis.
 Hepburn, William Alexander.

Houston, William.
 Hunter, David Guthrie.
 Hunter, Thomas Macmillan.
 Irvine, Robert.
 Isbister, Lucy Hay.
 Jack, Robert.
 Keir, David Robert Mackenzie.
 Leckie, Robert White.
 Lindsay, Muriel Giffen.
 Lusk, David Colville.
 M'Callum, John Duncan.
 M'Curtain, Mary Gillespie.
 M'Dougall, Hugh.
 MacEwen, Sidney Melrose.
 M'Irvey, Charles Gordon.
 Mackay, Francis.
 Mackenzie, Alexander.
 M'Laughlin, John.
 MacLean, Alexander Cockburn.
 M'Lean, Elizabeth Rankin.
 Maclean, John.
 Macleod, Alexander.
 M'Millan, Andrew.
 M'Millan, John (Bonhill).
 M'Millan, Margaret Carson.
 M'Phait, William.
 Macvea, Janet Annie.
 Masterton, David Graham.
 Millar, William.
 Morton, Christian Pettigrew.
 Morton, David.
 Moyes, James.
 Neilson, John.
 Ness, Robert Ralston.
 Nicolson, John.
 Patterson, John.
 Peebles, Thomas.
 Picken, Agnes.
 Rusk, Robert Robertson.
 Scott, Margaret.
 Scott, William.
 Shepherd, Arthur.
 Spence, John Ryrie.
 Steel, James Hall.
 Strachan, Alexander.
 Strang, Alexander.
 Strathern, Robert Fairley.

Sutherland, William.
 Symington, Thomas Struthers.
 Thompson, Isabella Maclean.
 Thompson, William Lindsay.
 Thomson, David.
 Thomson, Katherine.
 Thorn, Thomas Brown.

Turner, William Young.
 Vincent, Clarence James.
 Waddington, Cecilia Jane.
 Whiteford, Matthew.
 Wishart, George Baird.
 Young, Peter Taylor.

NATURAL PHILOSOPHY.

October, 1898.

Bell, Robert John Tainsh (I. Hon.).	M'Iver, Murdoch.
Bowie, John.	O'May, Daniel.
Brown, Hugh (II. Hon.).	Pattison, Thomas.
Diamond, Harry.	Pullar, Thomas (I. Hon.).
Douglas, Robert.	Sladden, Edith Marian.
Fulton, William (Uddingston) (II. Hon.).	Stark, Margaret Maxwell.
Jeffrey, John (III. Hon.).	Torrance, James.
Leitch, Archibald.	White, Joseph (I. Hon.).
Lowson, Peter (II. Hon.).	Wilson, James Robertson Sweet.

April, 1899.

Alexander, Thomas.	Livingston, Margaret Hay.
Boyd, Mary Russell.	Lochhead, Alice Mary.
Brown, William.	Milroy, James.
Busby, William Edward.	Morton, Alexander Dickie.
Chisholm, James.	Paterson, Thomas (Blantyre).
Cromar, Arthur Henry.	Riddell, Daniel Falconer.
Cross, Alexander.	Robertson, James.
Drew, Charles Milligan.	Runciman, William.
Dyer, James Ferguson.	Shearer, John (Armada).
Haddow, Alexander.	Shepherd, Arthur.
Hamilton, Robert Scott.	Simpson, Mary.
Hood, James.	Sinclair, James.
Hunt, Helena Dorothy.	Stirling, Francis Purser Holbrooke.
Hunter, Thomas Macmillan.	Strachan, Alexander.
Hyslop, William.	Sutherland, Arthur William.
Lamont, Alexander Buchanan.	Yuill, Isobel.
Leckie, James.	

CHEMISTRY.

May, 1898—MacGregor, Gregor.

October, 1898.

Christie, John Cairns.	Hutton, Malcolm.	Sutherland, Arthur William.
Gillies, John.	Stratton, William.	

April, 1899.

Duffy, Walter.	Leckie, James.	Rankin, William.
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ZOOLOGY.

October, 1898—Matheson, Alexander.

April, 1899.

Christie, John Cairns.	Wells, Robert Tait.
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BOTANY.

October, 1898.

Armour, Helen Maxwell.

Robertson, Howard Hope.

April, 1899—Riddell, Daniel Falconer.

GEOLOGY.

October, 1898—Johnston, James.*D.—HISTORY AND LAW.*

HISTORY.

*October, 1898.*Andrew, Alexander Somerville.
Campbell, Mary Isa.

Morton, Thomas Edward.

April, 1899.

Arnott, John Thomas.
 Black, Archibald Campbell.
 Buchan, William Henderson.
 Callander, Mary.
 Condie, George.
 Dewar, Robert Scott.
 Dyer, James Ferguson.
 Franks, Richard Lister.
 Henderson, James.
 Hood, James.
 Hutson, William.
 Jones, Thomas.
 King, Maurice John.
 Leys, Kenneth King Munsie.
 Lindsay, Edith Margaret.
 Lochhead, Alice Mary.
 Lowe, Theodore David.
 MacAlister, Malcolm.
 M'Clure, May Speirs.
 Mackay, Francis.

Maguire, Peter.
 Milne, Francis William.
 Mungo, David Brown.
 Paul, John.
 Rafferty, John.
 Reid, Caroline Ross.
 Reid, Maggie Miller.
 Robertson, Berkeley Hope.
 Shearer, John (Armada).
 Smith, Alexander.
 Smith, Thomas Macdonald.
 Spens, Janet.
 Symington, Thomas Struthers.
 Taylor, Walter Ross.
 Turner, Stanley Horsfall.
 Waddell, James.
 Waddell, Peter Hatley.
 Watt, Hugh.
 Young, Charles Alexander.
 Yuill, Isobel.

CONSTITUTIONAL LAW AND HISTORY.

April, 1899.

Black, Archibald Campbell.
 Hodge, Donald Grant.

Shaughnessy, Joseph.

ROMAN LAW.

October, 1898—Bell, Robert William.*April, 1899.*

Brown, Alexander.
 Dow, William Robert.
 Hodge, Donald Grant.
 M'Leod, Daniel.
 Macnab, George.

Muirhead, Alfred Patman.
 Osborne, George Edward Bell.
 Scrymgeour, James.
 Smith, Ernest Gardiner.
 Taylor, Walter Ross.

PRELIMINARY EXAMINATION FOR DEGREES IN ARTS AND SCIENCE.

The following passed in the subjects indicated (L., Lower; I., Intermediate; H., Higher):—

October, 1898.

Ackland, Dorothy (I. Math., L. Latin, French).
 Aird, Janet Robertson (L. Latin, French).
 Aird, William (H. Latin, H. Greek).
 Aitchison, Craigie Mason (L. Latin, L. Greek).
 Aitken, George (L. Greek).
 Anderson, Hugh Graham (English).
 Anderson, John (L. Latin, Dynamics).
 Anderson, Thomas (I. Math., French).
 Armstrong, Robert (L. Math., L. Latin).
 Armstrong, Thomas (English, L. Math.).
 Auld, William (L. Greek).
 Austin, James (H. Math., H. Latin).
 Bain, James (English).
 Bain, John (English, H. Math., H. Latin, H. Greek).
 Bell, Walter William Aitken (English, H. Math., H. Latin, H. Greek).
 Black, William Patterson (L. Latin).
 Blackie, Elizabeth (English).
 Blackley, Samuel (Dynamics).
 Blackwood, Helen Ormiston (L. Math., L. Latin).
 Borland, Alexander (H. Greek).
 Boyd, Alexander Bisland (H. Latin).
 Boyd, Mary Russell (H. Latin).
 Brechin, John Chalmers (L. Latin).
 Brown, David (English, H. Math., L. Latin).
 Brown, John Campbell (H. Math., L. Latin).
 Brown, William (English, H. Math., L. Latin, Dynamics).
 Bryan, David (I. Math., H. Latin, L. Greek).
 Bryson, William (English, H. Math., Dynamics).
 Buchanan, Joshua Duncan (H. Math., Dynamics).
 Buchanan, Thomas (L. Latin).
 Burnside, Jessie (L. Latin).
 Cameron, John Reid (H. Latin).
 Cameron, Mary Charlotte (L. Latin).
 Cameron, Thomas Bell (L. Latin).
 Campbell, Dorothy Katherine Somerville (I. Math.).
 Chalk, George Brisbane (English, L. Math., H. Latin).
 Chalmers, David Keir (French).
 Chalmers, Maggie (H. Latin).
 Chambers, John (English, L. Math., L. Latin, Dynamics).
 Chisholm, Alexander (English, H. Latin).
 Clark, Donald (English).
 Cochrane, James (English, I. Math., L. Latin, L. Greek).
 Conner, Lizzie (English, French).
 Connor, Charles (I. Math.).
 Cosh, James (H. Greek, Dynamics).
 Cowan, William Christie (English, I. Math., H. Latin, French, German).
 Cowie, John (Dynamics).
 Craig, James (English, L. Latin).
 Cranston, George (L. Greek).
 Crawford, David (I. Math.).
 Crichton, Alexander Pender (H. Math., H. Greek, Dynamics).

Crum, Robert Dalglish (English, L. Latin, L. Greek).
 Cupples, Joseph (I. Math.).
 Currie, John Duncan (I. Math.).
 Currie, Mary Darroch (I. Math.).
 Cuthbertson, John Montague (L. Greek).
 Dale, Arthur Edward (English, H. Latin, French).
 Dalziel, Samuel James (L. Latin).
 Davidson, Dugald (English, L. Math.).
 Dewar, Robert Scott (H. Latin, H. Greek).
 Dick, David Auchinvole (H. Latin).
 Dick, James (L. Latin).
 Dick, Jennie (I. Math.).
 Docherty, John (H. Math., H. Greek).
 Donald, Robert (H. Math., French, Dynamics).
 Donald, William Francis Maxwell (English, L. Latin, L. Greek).
 Downie, Jemima Wright (I. Math., L. Latin).
 Drury, John (I. Math., L. Greek).
 Duncan, Margaret Lighthbody (H. Latin).
 Duncan, William Hunter (H. Math., H. Latin).
 Dunlop, Hugh Morton (L. Latin).
 Dunn, John Shaw (German).
 Dunsnuir, George Augustus (H. Math.).
 Edwards, Hugh Anderson (H. Math., H. Latin, French).
 Elliot, John James (H. Greek).
 Fairweather, Minnie (H. Latin).
 Farmer, Charles Blackwood (English, H. Math., L. Latin, L. Greek).
 Faulds, George (L. Latin).
 Ferrier, Douglas (H. Latin, L. Greek).
 Finlator, Cunison Charles (English, H. Math., H. Latin, French).
 Fleck, John M'Pherson (H. Latin, H. Greek).
 Fleming, Archibald (H. Greek).
 Fletcher, Henry Mungles (H. Math., L. Latin, L. Greek).
 Forbes, Augustine Wentworth Scudamore (H. Math., H. Latin).
 Foulis, William Adamson (L. Math., H. Latin).
 Franks, Richard Lister (I. Math.).
 Fraser, Isabella Milligan (I. Math.).
 Gallagher, Mary Theresa (H. Math., French).
 Gemmell, David (L. Latin).
 Gemmell, John (English, H. Math., L. Latin).
 Gibb, Thomas (L. Greek).
 Gibson, Agnes (H. Latin).
 Gordon, John (English, I. Math., H. Latin, L. Greek, French).
 Gordon, Monica Mary (I. Math., H. Latin).
 Graham, Nigel Carlyle (H. Latin).
 Grahame, John Alexander (English).
 Gray, Peter Sommerville (L. Latin, Dynamics).
 Grieve, Weir (English, H. Latin, H. Greek).
 Grieve, William Crawford (H. Latin, H. Greek).
 Gullan, James Douglas Campbell (I. Math., L. Latin).
 Guthrie, Hugh Boyd (English, H. Math., H. Latin, Dynamics).
 Hamilton, John M'Farlane (H. Latin).
 Hamilton, William (English, I. Math., L. Latin, Dynamics).
 Hardie, William Towers (L. Latin, L. Greek).
 Harley, Frederick (I. Math., L. Latin, L. Greek).
 Harvey, George Thomson (English, L. Math., H. Latin, H. Greek).
 Hay, Effie Adamson (L. Latin).
 Hay, John Primrose (L. Greek, Dynamics).

- Henderson, Robert (I. Math., L. Latin).
 Henderson, William Dunlop (English).
 Henderson, William Watson (English, H. Math., H. Latin, L. Greek).
 Hepburn, William Alexander (H. Latin).
 Herries, Robert (English, I. Math., L. Latin, Dynamics).
 Herriot, Catherine Willox (H. Latin).
 Horn, John Fraser (I. Math.).
 Hudson, Alice Beatrice (L. Latin).
 Hunter, Thomas Macmillan (French).
 Hutcheson, William (H. Latin).
 Inglis, George Alexander (H. Math., French, Dynamics).
 Irvine, Robert (H. Math., L. Latin, L. Greek, French).
 Jack, George (English).
 Jack, Robert (English, H. Math., L. Latin, Dynamics).
 Jarvie, William Robert (L. Latin, Dynamics).
 Johnston, James Cowie (English, I. Math.).
 Johnston, Robert Buchanan (L. Latin, Dynamics).
 Johnstone, Archibald Fairlie (L. Latin).
 Keith, David Alexander (I. Math.).
 Kelly, William Joseph (H. Latin).
 King, Archibald (I. Math., L. Greek).
 Kirk, William Grant (English).
 Kirkpatrick, Thomas Ashley (English, L. Math., H. Latin).
 Knowles, Peter Wightman (L. Latin).
 Lambie, Margaret Bryson (H. Math.).
 Lang, Archibald (H. Math., H. Greek, Dynamics).
 Lauder, Isa Esther (L. Latin).
 Lawrie, Alexander (English, I. Math., H. Latin).
 Leckie, Robert White (L. Greek).
 Lightbody, Isaac Whiteford (L. Greek).
 Lightbody, Peter Morrison (English, L. Latin, Dynamics).
 Lindsay, Muriel Giffen (English).
 Livingston, Mary Ballantyne (I. Math.).
 Lochhead, Margaret Alexander (H. Latin).
 Loudon, William (L. Latin).
 Low, Thomas (L. Greek, Hebrew).
 Macalister, Robert Henry (H. Math., L. Latin, L. Greek).
 M'Arthur, Jane (H. Math.).
 M'Coll, Allan M'Dougall (H. Latin, L. Greek).
 Macdonald, John (Row) (English).
 Macdonald, Walter George (H. Greek).
 M'Dougall, Hugh (English, H. Math., L. Latin, Dynamics).
 MacEwen, Sydney Melrose (H. Greek).
 M'Ewen, Thomas (L. Latin).
 M'Guire, Robert Clark (H. Math., H. Latin, H. Greek, French).
 Macharg, Ebenezer Maitland (English, I. Math., H. Latin, H. Greek).
 M'Irvey, Charles Gordon (H. Math.).
 M'Iver, Alexander Matheson (H. Greek).
 Mackay, James Provan (H. Greek).
 Mackenzie, Peter (L. Latin).
 Mackinnon, Alexander (H. Greek).
 Mackinnon, Grace Alice (H. Math., H. Latin).
 Maciachlan, John Lindsay (L. Math.).
 MacLean, Alexander Cockburn (L. Latin, French).
 MacLean, Alexander MacLean (L. Latin).
 Maclean, John (Pollokshaws) (H. Math., L. Latin, French).
 M'Leish, Alexander (L. Greek).

M'Leish, John Duncan (English, L. Math.).
 Macleod, Alexander (L. Latin).
 Macmillan, Archibald Morven (H. Latin).
 MacMillan, Hugh Miller (French).
 M'Millan, John (H. Latin, French).
 M'Murtrie, John Malcolm (H. Latin, German).
 M'Nabb, James (English, H. Math., H. Latin, H. Greek).
 Macnair, Donald (H. Math., L. Latin).
 Macpherson, Alexander Hugh (H. Latin, French).
 M'Pherson, Andrew Brown (H. Math., H. Latin, Dynamics).
 M'Stravick, John (L. Latin).
 Macvea, Janet Annie (H. Latin, French).
 Maguire, Andrew (English, L. Math., L. Latin).
 Maguire, Peter (I. Math.).
 Main, John (L. Latin, L. Greek).
 Main, William (L. Latin, Dynamics).
 Malcolm, Alice Annie Lumsden (English, I. Math., L. Latin, French).
 Marr, James Henderson (L. Latin).
 Martin, John (H. Greek).
 Masterton, David Graham (English, L. Latin).
 Meek, Andrew (I. Math., French).
 Middlemiss, Francis (English, L. Greek).
 Millar, Alexander (I. Math., L. Latin).
 Millar, William (English, H. Math., L. Latin).
 Miller, John (Motherwell) (L. Latin, L. Greek).
 Mitchell, Alexander (L. Greek).
 Mitchell, George (L. Latin).
 Mitchell, Henry Taylor (L. Latin).
 Mitchell, Peter (H. Greek).
 Moffatt, Alexander (H. Greek, Dynamics).
 Montgomerie, David Lindsay (English, H. Latin).
 Morton, David (L. Latin).
 Muggoch, James Wilson (I. Math., French).
 Munro, John (Dynamics).
 Naismith, Robert (English, German, Dynamics).
 Napier, Andrew (H. Latin).
 Neilson, John (H. Latin).
 Neilson, Robert Morrison (French).
 Norwell, Alexander (English, French).
 Omand, George Gair (L. Greek).
 Paterson, Thomas Ure (English, H. Latin, L. Greek).
 Paterson, William (I. Math., H. Latin, L. Greek, Dynamics).
 Patrick, Samuel Barr (L. Latin).
 Picken, Agnes (L. Latin).
 Pickering, Mabel King (I. Math.).
 Pollock, George Alexander (H. Latin, Dynamics).
 Pollok, Robert George (H. Math.).
 Pryde, John Marshall (H. Latin).
 Quig, Gordon (L. Latin).
 Raeburn, George (English).
 Richardson, John Macdonald (H. Greek).
 Richmond, Daniel Stevenson (English, L. Latin, L. Greek).
 Riddell, John (I. Math.).
 Ritchie, Allan Marshall (English, L. Latin, L. Greek).
 Robertson, James (H. Math., L. Latin).
 Robertson, Jane Isabel (L. Latin).
 Robertson, Thomas Graham (English, L. Math., L. Latin, French).

Rogen, Alfred Sands (English, L. Math., H. Latin, Dynamics).
Rook, Thomas (H. Math., H. Latin., H. Greek).
Ross, Robert (English, H. Math., H. Latin, H. Greek, French).
Roy, William (H. Latin, L. Greek).
Runciman, James Watson (Hebrew).
Russell, Thomas (L. Latin).
Safeley, John (L. Math.).
Salmond, George (Dynamics).
Salmond, James (English, H. Math., L. Latin).
Saunders, Frank William (H. Greek).
Scott, Robert (English, L. Math.).
Scott, William (L. Latin, Dynamics).
Shearer, John (Armada) (L. Latin).
Shepherd, Arthur (H. Greek).
Simpson, Herbert Muir (English, H. Math., H. Latin).
Sinclair, Mary Graham (French).
Skilling, Samuel Ritchie (L. Latin).
Sloan, Kenneth Moir (I. Math., Dynamics).
Small, John Alexander (English, French).
Smart, Christian Elder Symington (German).
Smith, Finlay (H. Latin).
Smith, John (Falkirk) (English).
Smith, Robert Peden (H. Latin, L. Greek).
Smith, Thomas (L. Latin).
Sneddon, Robert William (H. Math., L. Greek).
Spens, Walter Thomas Patrick (English, H. Math., H. Greek).
Steel, James (I. Math.).
Stewart, Archibald (Campbeltown) (English).
Stewart, James Calderhead (English, I. Math., L. Latin).
Stewart, John (English, H. Latin, H. Greek, Dynamics).
Stewart, Marshall Sophos (H. Math., Dynamics).
Stodart, Agnes Porteous (English).
Strachan, William (English, I. Math., H. Latin, Dynamics).
Taylor, Henry (English, H. Latin).
Taylor, Murray Ross (L. Greek).
Thom, James Stirrat (English, L. Math., L. Latin).
Thomson, David (Dynamics).
Thomson, David Alexander (Dynamics).
Thorn, Thomas Brown (English, I. Math., H. Latin, L. Greek).
Waddell, Peter Hatley (H. Math., French).
Waddington, Cecilia Jane (English).
Walker, John (Glasgow) (H. Math., L. Greek).
Walker, John (Larbert) (English).
Wallace, William (I. Math., H. Latin).
Ward, David Livingstone (L. Latin).
Wardrop, Edward Hunter (English).
Weddell, Alexander Houston (H. Math., Dynamics).
White, Thompson (English).
Whiteford, Matthew (H. Math., H. Latin).
Wilkie, John (L. Latin).
Williamson, Alexander (Greenock) (H. Math., French).
Wilson, Margaret Irwin (English).
Wilson, William Scott Branks (H. Latin, L. Greek).
Winning, Thomas (H. Greek).
Wood, John (L. Latin).
Wylie, Jessie Reid (H. Latin).
Young, John Finlayson (I. Math.).

April, 1899.

- Ackland, Dorothy (H. Math., H. Latin, French).
 Aird, Janet Robertson (L. Math., H. Latin).
 Aitchison, Craigie Mason (H. Latin).
 Aitken, George (H. Greek).
 Alcorn, William Andrew (L. Latin, French).
 Anderson, Hugh Graham (L. Latin, L. Greek).
 Anderson, John Mackinnon (I. Math., L. Latin).
 Armstrong, Robert (H. Latin, Dynamics).
 Arneil, Loudon (English, I. Math., L. Latin).
 Auld, William (L. Greek).
 Auld, William James (English, I. Math., H. Latin, H. Greek, French).
 Bennett, William (L. Latin).
 Bickett, Margaret (L. Latin).
 Biss, Evan Ebenezer (I. Math.).
 Black, William Patterson (L. Latin).
 Blackley, Samuel (English, Dynamics).
 Blackwell, John Marshall (English).
 Boyce, Claud (H. Latin).
 Boyd, Alexander Bisland (English, H. Math., H. Latin, H. Greek).
 Bradshaw, James (English, Dynamics).
 Brechin, John Chalmers (H. Latin, French).
 Brown, David (H. Latin, Dynamics).
 Brown, Elizabeth Lyon (Dynamics).
 Brown, George William Alston (English).
 Brown, William (H. Latin).
 Buchanan, Thomas (H. Latin).
 Cameron, Donald Mackillop (L. Latin).
 Cameron, William Ernest (Dynamics).
 Campbell, Dorothy Kath. Somerville (L. Latin).
 Chambers, John (L. Latin, L. Greek).
 Clark, Donald (Dynamics).
 Coats, Olive Mary (English, French).
 Colquhoun, David Turnbull (English, L. Math.).
 Colquhoun, Joseph (L. Latin).
 Cowie, John (French).
 Cowling, Lewis William (I. Math.).
 Crawford, Archibald (English).
 Cree, George Henry Joseph (Spanish).
 Currie, John Duncan (German).
 Dalziel, Samuel James (L. Latin).
 Darroch, John Alister (English, L. Latin).
 Dempster, Thomas Grant (H. Math., L. Latin, Dynamics).
 Devine, James M'D. (English, H. Math., H. Latin, H. Greek, French).
 Dick, James (H. Latin).
 Dick, Jennie (H. Math., L. Latin).
 Donald, William Francis Maxwell (I. Math.).
 Downie, Jemima Wright (I. Math., L. Latin).
 Drysdale, William (L. Latin).
 Dudgeon, Peter (H. Math.).
 Duncan, William Hunter (English, French).
 Dunlop, James (English).
 Dunsmuir, George Augustus (English).
 Fairlie, John Clowes (L. Latin).
 Fairweather, Minnie (L. Math.).
 Farmer, Charles Blackwood (H. Latin).
 Fletcher, Henry Mungles (H. Latin, L. Greek).

Fyfe, Alexander (I. Math.).
 Galbraith, Annie Isabel (H. Math., L. Latin).
 Galloway, James Muir (English).
 Gilmour, Andrew (English).
 Gordon, Donald Campbell Bryce (English, L. Math.).
 Gordon, Ida M'Gregor (H. Latin).
 Gourlay, James Nash (L. Math., L. Latin, L. Greek).
 Graham, John (English, H. Math., L. Latin, Dynamics).
 Graham, Nigel Carlyle (English, I. Math.).
 Grant, Jessie Elizabeth Gollan (H. Math., L. Latin).
 Gray, Robert (English, L. Math.).
 Gullan, James Douglas Campbell (L. Latin, L. Greek).
 Hair, John, Muirkirk (L. Latin).
 Hair, John, Thornhill (English, H. Math., H. Latin, French).
 Hall, Hugh Lang (L. Latin, L. Greek).
 Hamilton, William (H. Math., L. Latin).
 Hammond, Charles Francis Dyer (L. Latin).
 Hardie, William Towers (L. Greek).
 Hardie, Margaret Mary (L. Latin).
 Harley, Frederick (English, H. Math.).
 Harvey, Margaret Arthur (L. Latin).
 Henderson, Andrew (H. Latin).
 Henderson, Robert (I. Math., L. Latin).
 Henderson, Walter (H. Latin, H. Greek).
 Heuchan, Mary Jane (L. Math., L. Latin).
 Hill, Ella Smith (L. Latin).
 Hislop, Frederick Laurence (H. Math., Dynamics).
 Horn, John Fraser (I. Math., H. Latin).
 Houston, William Campbell (English, H. Math., Dynamics).
 Howden, James (H. Math., L. Latin).
 Hunter, Mary Violet (English, French).
 Hunter, Robert Dalglish (English, H. Latin).
 Jamieson, William (English, H. Math., H. Latin, Dynamics).
 Jarvie, William Robert (L. Latin).
 Kennedy, Donald Thomson (L. Latin).
 Kerr, William Davidson (English, H. Latin).
 Kinloch, John Laing (H. Greek).
 Kirkpatrick, Edith Grant (English, French).
 Knowles, Isobel Alexander (L. Latin).
 Laird, Archibald Jarvie (English).
 Lambie, Margaret Bryson (L. Latin).
 Livingston, Mary Ballantyne (L. Latin).
 Loudon, William (I. Math., H. Latin).
 Macalister, Robert Henry (English, L. Latin, L. Greek).
 M'Arthur, Jane (L. Latin).
 M'Connachie, Annie (I. Math., L. Latin).
 MacDonald, Colin MacGilp (English, H. Latin, H. Greek).
 Macdonald, Hughina Jeanie Cameron (H. Latin, H. Greek).
 MacDonald, Marion (L. Latin, L. Greek).
 M'Ewen, Thomas (L. Latin).
 Macfarlane, Robert (English, I. Math.).
 M'Gregor, Charles Edward (English, I. Math.).
 M'Haffie, Isabella (H. Math., H. Latin).
 M'Harg, William (H. Math.).
 M'Ilroy, Edith Mary (L. Latin).
 M'Iver, Duncan (English, L. Latin).
 Mackay, Grace Christina (H. Math., L. Latin).

Mackenzie, Alexander Clarke (English).
 M'Kenzie, Catherine Ferguson (English, L. Greek).
 Mackenzie, Peter Murchison (English, L. Latin).
 MacLachlan, Charles Fellowes Moncrieffe (H. Latin, L. Greek).
 MacLachlan, Duncan Robert (French).
 MacLaren, Norman Henry William (L. Math., French).
 M'Lean, Elizabeth Rankin (L. Latin).
 M'Lean, William (L. Latin, French).
 Maclean, William Norman (French).
 M'Leish, Alexander (L. Latin).
 M'Neil, John (English, H. Latin).
 M'Neil, William Arnott (English).
 Macpherson, William Pettigrew (I. Math.).
 Macphie, Donald (English, I. Math.).
 M'Stravick, John (English, L. Latin).
 Macvicar, Angus (English, H. Latin, L. Greek).
 Main, John (English, H. Greek).
 Mair, John (English, L. Latin).
 Malcolm, Alice Annie Lumsden (I. Math., H. Latin).
 Marr, James Henderson (H. Latin).
 Martin, Alexander Denholm (English).
 Masterton, David Graham (H. Latin).
 Millar, Alexander (H. Math., L. Latin).
 Miller, John (Motherwell) (L. Latin).
 Montgomerie, Alexander (H. Greek).
 Montgomery, Archibald (English, L. Math, L. Latin).
 Morison, Robert M'Kenzie (English, H. Math., H. Greek).
 Morrison, David Lyall (English, L. Latin).
 Morton, David (H. Latin).
 Muggoch, James Wilson (I. Math., H. Latin).
 Murray, David (L. Math., L. Latin).
 Nielson, George Clement (English, I. Math.).
 Park, Graham (H. Latin).
 Paterson, James (English).
 Paterson, May Janet (H. Latin, French, German).
 Paterson, Thomas Ure (L. Greek).
 Patrick, Samuel Barr (English, I. Math., L. Latin).
 Pollok, Robert George (L. Latin, L. Greek).
 Porter, Edward (English, I. Math., Dynamics).
 Quig, Gordon (H. Latin, L. Greek).
 Rae, Elizabeth Agnes (English, L. Math.).
 Riddell, Thomas Park (German).
 Ritchie, Allan Marshall (H. Latin, H. Greek).
 Robertson, Jane Isabel (English, French).
 Robertson, Thomas Graham (H. Math., H. Latin).
 Ross, George (English, H. Latin).
 Roy, William (H. Greek).
 Rule, Elsie Speirs, (English, H. Math., L. Latin, Dynamics).
 Russell, Thomas (English).
 Rutherford, William Steel (Hebrew).
 Safeley, John (English).
 Satow, Konji (I. Math.).
 Scott, John Waugh (English).
 Shennon, Malcolm (L. Math., L. Greek).
 Sim, Charles Gauld (H. Math., H. Latin, L. Greek, Dynamics).
 Simpson, Herbert Muir (Dynamics).
 Sinclair, Mary Graham (L. Latin, French).

Sloan, Kenneth Moir (English, Dynamics).
 Smart, Christian Elder Symington (English, Dynamics).
 Smith, Robert Peden (H. Greek).
 Smith, Thomas (English, I. Math., L. Latin).
 Smyth, Pierson Florence John (I. Math., Dynamics).
 Sneddon, Robert William (H. Greek).
 Somerville, Elizabeth (L. Latin, French).
 Spence, John Ryrie (H. Greek).
 Stewart, Archibald (Campbeltown) (H. Latin).
 Stewart, Frederick Robert (English, H. Math., L. Latin, Dynamics).
 Stewart, James Calderhead (H. Latin).
 Stewart, John Torrance Weir (English).
 Stewart, Marshall Sophos (English).
 Stewart, Thomas (English, L. Latin).
 Stewart, William (L. Latin).
 Tainsh, John Alexander Gowans (English, H. Math., L. Latin).
 Thom, James Stirrat (L. Latin, Dynamics).
 Thomson, Thomas Nichol Marshall (L. Latin).
 Vost, Andrew (English).
 Wardrop, Edward Hunter (H. Math., L. Latin).
 Watson, Duncan (I. Math.).
 Watt, James (English).
 Webster, James Gordon (English, L. Latin).
 Weddell, Alexander Houston (English, French).
 Weir, Marion (H. Latin).
 Westwater, James (English, H. Math., L. Latin).
 Williamson, James (English, L. Latin).
 Wilson, Andrew Victor (H. Math., Dynamics).
 Wilson, James (H. Math., L. Latin, L. Greek).
 Wilson, John (English).
 Wilson, William Scott Branks (H. Greek).
 Wingate, Ashmore Kyle Paterson (L. Greek).
 Wood, Margaret Goldie (English).
 Young, William (English).

PRELIMINARY EXAMINATION FOR DEGREES IN MEDICINE.

The following passed in the subjects indicated :

October, 1898.

Aitken, John Andrew (Math., Latin).
 Allan, William Smith (English).
 Amy, Archibald Craig (French).
 Arthur, John William (English, Greek).
 Beattie, George (Math., Latin, French).
 Blackley, David (Latin, Greek).
 Bolton, William Thomas (Latin).
 Bradford, Robert George (English, Math., Latin, French).
 Burns, Charles (Math., French).
 Cassells, David Fulton (Math.).
 Coggans, James Joseph (Math., French).
 Connal, Andrew (Latin).
 Craig, David (Math.).
 Dykes, David Garfield (Math., Latin).
 Eadie, James (English, Math., Latin, German).
 Evans, Trevor (English, Math.).
 Fisher, Robert Lang (English, Latin).
 Foster, John (Math.).
 Gilmour, Jane Reid Foulds (Latin).

Hardy, Margaret (Latin).
 Henderson, John Cochrane (Math.).
 Herbertson, Thomas (Greek).
 Hunter, John Marshall (Math.).
 Hunter, William Gentleman (French).
 Jamieson, Alexander (English).
 Kirkwood, George Notman (Math.).
 Lochrane, Charles (English, Math., Latin, Greek).
 Macaulay, Donald (English, Math., Latin, Greek).
 Macdougall, Archibald Buchanan (Math., French).
 M'Ewan, James Boston (English, French).
 Macewen, Hugh Allan (German).
 M'Houl, James (French).
 M'Intyre, Hector (Greek).
 Macintyre, John (English, Math., Latin).
 Maclean, Alice Wesley (Latin).
 Maclean, Angus (Math.).
 Millar, Gavin (English, Math.).
 Millar, Margaret Walker (Latin, Greek).
 Millar, Peter (French).
 Mitchell, Howard Vincent (English).
 Montgomery, William Frederick (English, Math.).
 Morton, John Baird (English, Math.).
 Munro, Jessie Emily (Math., French).
 Munro, Macdonald (English, Math., German).
 O'Hare, Patrick Joseph (English, Math.).
 Oversby, Edith (English, French).
 Pickup, John Clegg (English, Math., Latin).
 Pincock, Samuel Southall (Math., French).
 Porter, James (English, Math.).
 Proudfoot, James (English).
 Raeburn, George (Latin).
 Reid, Harriett Rowland Louise (Math., Latin, French).
 Scott, Thomas Dunnet (English, Math.).
 Sieger, William Herman (Latin).
 Sinclair, Alexander Hunter (Latin).
 Slater, Robert Alexander (Latin, French).
 Stewart, William (English, Math., Latin, Greek).
 Stewart, William Craig (English).
 Wilson, George (Math., Latin).
 Wilson, Robert M'Nair (English, Greek).

April, 1899.

Adam, Scott Campbell (English, Math., Latin, French).
 Aitken, John Andrew (English, French).
 Allan, William Smith (Latin, French).
 Allen, Frank Coltman (English).
 Allison, Andrew (English).
 Amy, Archibald Craig (Latin, French).
 Anderson, Andrew Woodroffe (English).
 Anderson, George Victor (English, Math., Latin, Greek).
 Anderson, Henry Graeme (Math., Latin).
 Bennett, Alexander Malcolm (English, French).
 Blackley, David (English, Math.).
 Brechin, Forrest (Math., Latin, Greek).
 Brown, Alexander (Dumfries) (English, Latin).
 Brown, Alexander (Galston) (Math.).

Burns, Charles (English).
Caldwell, George Yuille (English, Math., Latin, French).
Campbell, Roberta (Math., Latin).
Cassells, David Fulton (Math., Latin).
Cassels, Effie (English).
Clarke, William Hanna (English).
Coats, George (English, French).
Coggans, James Joseph (Latin).
Dishington, Thomas Thornton Macklin (English, Math., Latin, French).
Fleming, Robert Tarbett Gibson (English, Math., Latin, French).
Foster, John (English, Latin).
Gillatt, William Harold (English, Math., Latin, French).
Graham, David Livingstone (Latin, French).
Grant, Donald John Gollan (Latin).
Gray, George Munn (Latin).
Henderson, John Cochrane (English, Math., Latin, French).
Hill, Robert M'Cowan (English, Latin).
Howell, Ralph (Latin).
Hunter, John Marshall (Math.).
Hunter, William (Latin, French).
Innes, Arthur (Math., Latin, Greek).
Johnstone, Mary Whyte (English).
Kirk, Jane Baird (French).
Kirkwood, George Notman (English, Math., Latin).
Macanlay, Angus (English).
Macaulay, Ernest Bowman (English).
M'Cormick, Donald Carmichael (English, Math., Latin, Greek).
MacDowall, Robert Gray (Math.).
M'Ewan, James Boston (Math., Latin).
Macewen, Hugh Allan (Latin, German).
M'Farlane, John (Math., Latin, Greek).
Macfie, James Dennistoun (English, Math., Latin, Greek).
M'Houl, James (English, Math., Latin).
M'Intyre, Milne (Latin, French).
M'Kay, John (English, Latin).
Mackenzie, William Ferguson (French).
M'Pherson, Andrew Brown (English, Math., French).
M'Sweeney, Denis Leon (English, Math.).
Maguire, Andrew (French).
Marshall, James (English, Math., Latin, French).
Martin, William Blair Morton (Latin).
May, Robert (English).
Millar, Gavin (Latin, French).
Millar, Margaret Walker (English, Latin, Greek).
Moffatt, John (English, Math., Latin, Greek).
Muir, John (English, Math., Latin, French).
Munro, Jessie Emily (English, Latin).
Murdoch, John (Latin).
Naismith, Archibald (English).
O'Hare, Patrick Joseph (Latin, French).
Oversby, Edith (Latin).
Pickup, John Clegg (French).
Pincock, Samuel Southall (English, Latin).
Porter, James (Latin, Greek).
Ranken, Henry Sherwood (Math., Latin, Greek).
Raw, Mary (English, Math., Latin, French).
Reid, Donald Ronald (English, Math., Latin, German).

Richmond, James Watson (Latin, French).
 Scott, Thomas Dunnet (Latin).
 Scouller, Thomas Lambie (English).
 Shaw, Jane Reid (Latin).
 Sieger, Edward Louis (English, Math., Latin, French).
 Sieger, William Herman (Latin, German).
 Sinclair, Alexander Hunter (English, Latin).
 Smith, George Goldie (Latin).
 Smith, James Anstruther (English, Math.).
 Smith, John Robertson (English, Latin, Greek).
 Spinks, Archibald Frank (English).
 Stewart, Peter (English).
 Stewart, William Craig (Math., Latin, French).
 Taylor, William Robb (English, Math., Latin, Greek).
 Templeton, William (Math., Latin, French).
 Thomson, Elizabeth Leishman (English).
 Thomson, James White (Latin, French).
 Wallace, William (English).
 Watson, Hugh (English).
 White, Hugh (English, Latin, French).
 Wilson, John Erskine (English).

BURSARY EXAMINATION.

October, 1898.

The figure (2) denotes students of the second year.

The following are the first fifty-one names in the order of merit, viz:

1. Thomas Barbour, Kilmarnock Academy.
2. James Moyes, Hutchesons' Grammar School, Glasgow.
3. James P. Mackay, Whitehill Public School, Glasgow.
4. Arthur Shepherd, High School, Glasgow.
5. John Bain, Academical Institution, and Foyle College, Londonderry.
6. William H. Coats, High School, Glasgow.
7. Archibald Lang, Allan Glen's School, and Pupil Teachers' Institute, Glasgow.
8. Daniel Gillies, Whitehill Public School, Glasgow.
9. David R. Mitchell, Hutchesons' Grammar School, Glasgow.
10. William Douglas (2), Pupil Teachers' Institute, Glasgow.
11. James Cosh, High School, Falkirk.
12. Matthew Stewart, High School, Glasgow.
13. Robert W. Barr, Hutchesons' Grammar School, Glasgow.
14. John H. Stewart (2), Pupil Teachers' Institute, and F.C. Training College, Glasgow.
15. John C. Mann (2), Hillhead Public School, Glasgow.
16. James Hunter, Pupil Teachers' Institute, Glasgow.
17. Peter H. Waddell, Kelvinside Academy, Glasgow.
18. Walter L. Henderson, High School, and Whitehill Public School, Glasgow.
19. Alexander Borland, Queen's Park Public School, and High School, Glasgow.
20. James M'Nabb, Burgh Academy, Dunbarton.
21. William J. Kelly, High School, Stirling.
22. James H. Steel (2), Uddingston Public School.
23. William H. Andrew, Grammar School, Campbeltown.
24. Gavin Muir, Hutchesons' Grammar School, Glasgow.
25. James H. Lindsay, Glasgow Academy.
26. Archibald N. Main, Hamilton Academy.

27. Oliver Dryer, Airdrie Academy, and Hutchesons' Grammar School, Glasgow.
28. Alexander Goldie (2), Newmilns Public School, and F.C. Training College, Glasgow.
29. Robert K. Goodfellow, Royal Academy, Irvine.
30. Neil MacInnes, Public School, Broadford, Skye, and High School, Glasgow.
31. William T. Ritchie, Spiers' School, Beith.
32. Robert S. Dewar, Hutchesons' Grammar School, Glasgow.
33. Harold Wilson, Public School, Bearsden.
34. John G. Gibson (2), Kilsyth Academy, and C. of S. Training College, Glasgow.
35. Arthur J. Cubberley, (2), Govanhill and Allan Glen's Schools, Glasgow.
36. John R. Spence, Spiers' School, Beith.
37. Sydney M. MacEwen, Whitehill Public School, Glasgow.
38. Susan J. Russell (2), Hutchesons' Grammar School, and Pupil Teachers' Institute, Glasgow.
39. John Martin, High School, Glasgow.
40. Alexander Moffatt, Pupil Teachers' Institute, Glasgow.
41. John R. Cameron, Ayr Academy.
42. Robert Cunningham, Lanark Grammar School.
43. Robert C. M'Guire, Paisley Grammar School.
44. Robt. Ross, Bowmore Public School, and High School, Glasgow.
45. Archibald Young, Hillhead Public School, Glasgow.
46. Archibald Fleming, Airdrie Academy, and High School, Glasgow.
47. William Y. Turner, High School, Glasgow.
48. Peter Mitchell, Hamilton Academy.
49. Alexander M. M'Iver, High School, Glasgow.
50. William MacNaught, High School, Oban.
51. John Docherty, Whitehill Public School, and Pupil Teachers Institute, Glasgow.

UNIVERSITY PRIZES.

I.—FOR ESSAYS.

1. In Mental Philosophy, the UNIVERSITY SILVER MEDAL, for the best Essay on "Kant's Theory of the *Æsthetic* Judgment and of Art."
Duncan M'Taggart, Paisley.

2. A COULTER PRIZE OF FIVE POUNDS, for the best Essay on "John Knox as a Theologian."

John Scouler Thomson, M.A., Kingarth, Bute.

3. A COULTER PRIZE OF FIVE POUNDS, for the best Dissertation in English on the Fragments of Euripides, to which may be added an attempt to trace the plot and assign the particular fragments to their speakers in one or two selected tragedies.

George Hope Stevenson, Glasgow.

4. THE RECTOR'S PRIZE OF TWENTY-FIVE POUNDS, for the best Essay on "The Influence of British Colonization on the Peace and Civilization of the World."

John Lyle Morison, M.A., Greenock.

Proxime accessit—Alexander Strang, Denny.

II.—FOR EXAMINATION.

1. An ARNOTT PRIZE OF FIFTEEN POUNDS, for an Examination in General Physics, open to Students of the first and second years of their Medical Studies.

Alexander Macintyre, Gairloch, Ross-shire.

2. An ARNOTT PRIZE OF TWENTY-FIVE POUNDS, for an Examination in Physiological Physics, open to Students of the third and fourth years of their Medical Studies.

James Macpherson, M.A., Glasgow.

3. The FINDLATER (DIVINITY) SCHOLARSHIP, VALUE THIRTY-EIGHT POUNDS, for Examination in the Subjects for the degree of B.D.

Donald Macleod, M.A., Glasgow.

4. The JAMIESON PRIZE, VALUE TEN POUNDS, for Examination in the Subjects for the Degree of B.D.

Duncan Cameron, M.A., Greenock.

John A. C. Mackellar, M.A., Glasgow. } Equal.

5. The MACFARLAN AND COOK TESTIMONIAL PRIZE OF TWENTY-ONE POUNDS, open to Theological Students of three years standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

Dugald Clark, M.A., Islay.

6. The THOMAS LOGAN MEMORIAL MEDAL AND PRIZE OF TWELVE POUNDS, to the most distinguished Graduate in Arts of the year (1898).

John Lyle Morison, M.A., Greenock, with First-Class Honours in English and First-Class Honours in History.

7. The BRUNTON MEMORIAL PRIZE OF TEN POUNDS, to the most distinguished Graduate in Medicine of the year (1898).

William Kilpatrick Hutton, M.A., M.B., C.M.

III.—FOR THESES.

BELLAHOUSTON GOLD MEDALS for eminent merit in Theses for M.D. (alphabetically arranged):

John Wainman Findlay, M.D.

Robert Stevenson Thomson, B.Sc., M.D.

CLASS PRIZES.

Faculty of Theology.

DIVINITY.

PROFESSOR WILLIAM HASTIE, D.D.

SENIOR CLASS.

1. Students of the Third Year:—

1. William J. S. Miller, M.A., Glasgow (Cleland and Rae Wilson Gold Medal and Dickson Prize).

2. John Scoular Thomson, M.A., Kingarth, Bute.

3. Duncan Cameron, M.A., Greenock.

4. Dugald Clark, M.A., Islay.

5. David Preston, M.A., Airdrie.

Proxime accesserunt—David F. Liddell, M.A., Crief; John Murphy, M.A., Lanark; Neil Ross, M.A., Broadford, Skye.

Dowanhill Prizes of £20 and £10 for Elocution:—

1. John A. C. Mackellar, M.A., Glasgow.

2. John A. MacCormick, M.A., Mull.

II. Students of the Second Year :—

1. Robert Marcus Dickson, M.A., Glasgow.
2. { Robert Aitken, M.A., Dalry, Ayrshire.
- { William W. Fulton, M.A., Beith.
3. { Andrew M'Farlane, M.A., Urray.
- { Robert Nelson, M.A., Glasgow.

Proxime accesserunt—John K. Cameron, Rothesay; Neil Mackinnon, Glasgow; Richard R. Williams, M.A., Wales.

JUNIOR CLASS.

III. Students of the First Year :—

1. William Fulton, M.A., Uddingston.
2. James E. Henderson, M.A., Glasgow.
3. Alexander Macdonald, Ardnamurchan.
4. Andrew W. Kennedy, Kingussie.

Proxime accesserunt—James Francis, M.A., Glasgow; James W. Baird, M.A., Strone.

DIVINITY AND BIBLICAL CRITICISM.

PROFESSOR WILLIAM STEWART, D.D.

SENIOR DIVISION.

I. For Written Examinations :—

1. William J. S. Miller, M.A., Glasgow (Cleland and Rae Wilson Gold Medal).
2. Dugald Clark, M.A., Islay.
3. Neil Ross, M.A., Broadford, Skye.
4. { Duncan Cameron, M.A., Greenock.
- { John Murphy, M.A., Lanark.

Proxime accesserunt—David Preston, M.A., Airdrie; Donald Macleod, M.A., Glasgow; John A. MacCormick, M.A., Mull; John A. C. Mackellar, M.A., Glasgow; David A. Morrison, M.A., Dalry, Ayrshire.

II. For Exercises :—

1. David Preston, M.A., Airdrie.
2. Duncan Cameron, M.A., Greenock.
3. Dugald Clark, M.A., Islay.

Proxime accesserunt—John A. MacCormick, M.A., Mull; David A. Morrison, M.A., Dalry; Thomas Skeoch, Glasgow.

JUNIOR DIVISION.

I. For Written Examinations :—

1. Robert M. Dickson, M.A., Glasgow.
2. { Robert Aitken, M.A., Dalry, Ayrshire.
- { Andrew Macfarlane, M.A., Urray.

Proxime accesserunt—William W. Fulton, M.A., Beith; Robert Nelson, M.A., Glasgow.

II. For Exercises :—

1. Robert M. Dickson, M.A., Glasgow.
2. Robert Aitken, M.A., Dalry.
3. Andrew Macfarlane, M.A., Urray.

Proxime accesserunt—Robert Nelson, M.A., Glasgow; Richard R. Williams, M.A., Wales; John Dods, B.A., Durrow, Queen's Co., Ireland.

HEBREW AND SEMITIC LANGUAGES.

PROFESSOR JAMES ROBERTSON, D.D.

SENIOR HEBREW CLASS.

1. Andrew Macfarlane, M.A., Urray (Cleland and Rae Wilson Gold Medal).
2. James W. Baird, M.A., Strone.
3. Robert Nelson, M.A., Glasgow.
4. Robert Aitken, M.A., Dalry, Ayrshire.
5. { William W. Fulton, M.A., Beith.
James E. Henderson, M.A., Glasgow.

JUNIOR HEBREW CLASS.

1. Angus J. Morrison, M.A., North Uist.
2. Andrew W. Kennedy, Kingussie.
3. Hugh Alexander, Glasgow.
4. Dugald Carmichael, Lismore.
5. James Jack, Glasgow.
6. David R. M. Keir, Bonnybridge.

SPECIAL PRIZES.

1. Vacation Work—Andrew Macfarlane, M.A., Urray.
2. Examinations on Class Lectures—1, Robert Marcus Dickson, M.A., Glasgow; 2, Robert Aitken, M.A., Dalry.
3. Preparatory Class (*Summer*, 1898)—Fergus Ferguson, M.A., and John Muir—Equal.

CHURCH HISTORY.

PROFESSOR JOHN COOPER, D.D.

SENIOR CLASS.

1. William J. S. Miller, M.A., Glasgow (Cleland and Rae Wilson Gold Medal).
2. Neil Ross, M.A., Broadford, Skye.
3. John A. C. Mackellar, M.A., Glasgow.
4. Duncan Cameron, M.A., Greenock.

Proxime accesserunt.

David Preston, M.A., Airdrie.
 John Murphy, M.A., Lanark.
 John S. Thomson, M.A., Kingarth, Bute.
 Donald Macleod, M.A., Glasgow.

Special Prize for Oral Examination—David Preston, M.A., Airdrie.

JUNIOR CLASS.

1. William Fulton, M.A., Uddingston.
2. Angus J. Morrison, M.A., North Uist.
3. Andrew W. Kennedy, Kingussie.

Proxime accesserunt.

James E. Henderson, M.A., Glasgow.
 Hector W. Mackay, Tongue, Sutherland.
 James W. Baird, M.A., Strone.

Special Prize for Oral Examination—James E. Henderson, M.A., Glasgow.

Faculty of Law.

SCOTS LAW.

PROFESSOR ALEXANDER MOODY STUART, LL.D.

I.—For Eminence in Class Examinations:—

1. *John Girvan, M.A. (Robert Ross Prize).
2. *†Andrew B. Salmond.
3. *William Andrew (Dean of Faculty's Prize).
4. *Thomas G. Wright, M.A.
5. { *William J. Hill, } Equal.
6. { *Henry G. Peattie, }
7. *John Maxwell.
8. { William G. Macalister, M.A., } Equal.
9. { †Charles M'Millan, } Equal.
10. { Thomas M. Smith, }
11. William Phillips, M.A.
12. { James D. Cowan, M.A., } Equal.
13. { Harold F. Monteath, }
14. Alexander A. Gardner, M.A.
15. †William Gibson.
16. { James Coutts, } Equal.
17. { Thomas W. Donald, M.A., }
18. { Thomas H. Paterson, }
19. { John D. Milne, } Equal.
20. { Peter M'Connachie, }
21. { †James Bell, } Equal.
22. { Neil K. Miller, }
23. { Colin C. MacCulloch, }

The * denotes the Prizemen.

† Second-Year Students.

II.—The Prizes given by the Faculty of Procurators in Glasgow for Eminence in a Special Examination in the Subjects of the Course were awarded to:—

- | | |
|-----------------------|-------------------------------|
| 1. William Andrew. | 4. { Neil K. Miller, } Equal. |
| 2. Andrew B. Salmond. | 5. { Thomas H. Paterson, } |
| 3. John Girvan, M.A. | 6. William Gibson. |

The following Students distinguished themselves in this Examination, viz.:

7. { William G. Macalister, M.A., } Equal.
8. { William Phillips, M.A., }
9. Henry G. Peattie.
10. { James Coutts, } Equal.
11. { John Maxwell, }
12. { Alexander A. Gardner, M.A., } Equal.
13. { Harold F. Monteath, }

CONVEYANCING.

PROFESSOR JAMES MOIR.

1. Peter S. Dunlop, Dumbarton (The Robert Ross Prize).
2. William Watson, Glasgow (The Dean of Faculty's Prize).

CLASS PRIZES.

3. Henry J. Donaldson, Glasgow.
4. George B. Chalk, Glasgow.
5. William H. Mitchell, Greenock.

Specially distinguished :—

6. Charles Finlayson, Hurlford, Ayrshire.

Eminently distinguished :—

- | | |
|---------------------------------------|----------|
| 7. Andrew Brown, Lesmahagow, | } Equal. |
| 8. James Macaulay, Govan, | |
| 9. William N. Raeburn, M.A., Glasgow. | |
10. David Crawford, Stirlingshire.
 11. James D. Wyllie, Kilmarnock.
 12. Thomas S. Haran, M.A., Glasgow.
 13. Thomas Galbraith, Maybole.
 14. William M. R. Pringle, M.A., Glasgow.
 15. Robert Henderson, Hamilton.

FACULTY PRIZES.

Prizemen :—

1. Peter S. Dunlop, Dumbarton.
2. William M. R. Pringle, M.A., Glasgow.
3. William Watson, Glasgow.

Eminently distinguished :—

- | | |
|--|----------|
| 4. Henry J. Donaldson, Glasgow, | } Equal. |
| 5. George Napier, Peterhead, | |
| 6. George M. Fraser, Portree. | |
| 7. Thomas S. Haran, M.A., Glasgow, | } Equal. |
| 8. James Macaulay, Govan, | |
| 9. William N. Raeburn, M.A., Glasgow, | } Equal. |
| 10. John H. Wallace, Alexandria, N.B., | |
| 11. John L. Wark, M.A., Glasgow, | |
| 12. James D. Wyllie, Kilmarnock. | |
| 13. Andrew Brown, Lesmahagow. | |

CIVIL (OR ROMAN) LAW.

LECTURER—JAMES M. IRVINE, M.A., B.Sc., LL.B., ADVOCATE.

- | | |
|--------------------------------|-----------------------------|
| 1. { *Hugh R. Buchanan, M.A. | 9. Alfred P. Muirhead. |
| 2. { *William Boyd Berry, M.A. | 10. William W. Gillan, M.A. |
| 3. { *Walter Arroll, M.A. | 11. { John A. Gulliland. |
| 4. { Donald Mackay. | 12. { Daniel M'Leod. |
| 5. { William M. Murray, M.A. | 13. { Alexander Brown. |
| 6. { George Macnab. | 14. { James Scrymgeour. |
| 7. { Walter Ross Taylor. | 15. { Ernest G. Smith. |
| 8. { George E. B. Osborne. | |

The * denotes the Prizemen.

PUBLIC INTERNATIONAL LAW.

LECTURER—WILLIAM GALBRAITH MILLER, M.A., LL.B., ADVOCATE.

First-Class Honours and Prize.—James Adam, M.A., Paisley.

INTERNATIONAL PRIVATE LAW.

Summer, 1898.

LECTURER—WILLIAM GALBRAITH MILLER, M.A., LL.B., ADVOCATE.

First-Class Honours and Prizes.

1. John L. Wark, M.A., Glasgow. 2. William M. Murray, M.A., Glasgow.

Second-Class Honours.—Henry J. Donaldson, Glasgow.

JURISPRUDENCE.

LECTURER—WILLIAM GALBRAITH MILLER, M.A., LL.B., ADVOCATE.

First-Class Honours and Prizes.

1. James Adam, M.A., Paisley.
2. Michael J. Connell, B.A., Glasgow.
3. Thomas S. Haran, M.A., Glasgow.

Second-Class Honours.

4. { John D. Johnston, M.A., Glasgow, } Equal.
 { Robert Tennent, M.A., Glasgow, }
5. Arthur Erskine Murray, M.A., Glasgow.

CONSTITUTIONAL LAW AND HISTORY.

LECTURER—WILLIAM S. M'KECHNIE, M.A., LL.B., D.Phil.

HONOURS CLASS.

1. John Lochhead (Prizeman).
2. Maude G. May.

ORDINARY CLASS.

1. James Adam, M.A. (First Prize).
2. Hugh R. Buchanan, M.A. (Second Prize).
3. Walter Arroll, M.A. (Third Prize).
4. Malcom Dunlop, M.A.
5. William B. Berry, M.A.
6. John Girvan, M.A.
7. William N. Raeburn, M.A.
8. Michael J. Connell, B.A.

MERCANTILE LAW.

LECTURER—JAMES MACKENZIE.

John Harrison, Glasgow (92 per cent.). James Dunlop, Glasgow (91 per cent.).

FORENSIC MEDICINE.

PROFESSOR JOHN GLAISTER, M.D., D.P.H. (Camb.), F.R.S.E.

Thomas G. Wright, M.A., Medallist.
 Thomas W. Donald, M.A., *Proxime Accessit*.

Second-Class Certificate.

Francis M. Cockburn, M.A.

Faculty of Medicine

MEDALS AND CERTIFICATES OF MERIT.

SURGERY.

PROFESSOR WILLIAM MACEWEN, M.D., LL.D., F.R.S.

MACLEOD GOLD MEDAL FOR 1897-98.—William H. Steel, B.A., M.B., Ch.B.

SENIOR DIVISION.

FIRST-CLASS CERTIFICATES.

Alexander Wilson (Medallist).	James F. Bennett.
Alex. Laurie Watson, M.A.	*Alexander S. Wells.
* Absent from one Examination.	

JUNIOR DIVISION.

FIRST-CLASS CERTIFICATES.

Leonard Findlay (Medallist).	John D. Brownlie,	} Equal.
Hyam Goodman, M.A.	Allan Martin, M.A., B.Sc.,	
George White.	William B. I. Pollock,	} Equal.
James D. Lickley.	James C. Turnbull,	

COMMENDED.

Edward P. Cathcart,	Hugh P. Wright.	} Equal.
David G. S. Gartshore,	Duncan M. MacRae, M.A.,	
James M'Pherson, M.A.,	James Millar, M.A.,	} Equal.
Charles C. Cuthbert, M.A.	James Davidson, M.A.,	
John D. Richmond,	William W. George,	} Equal.
Andrew Mair,	Robert M. Marshall,	
Alexander Fraser, M.A.,	Norman M. Leys.	
Alexander Munro,		

CLINICAL SURGERY.

PROFESSOR WILLIAM MACEWEN, M.D., LL.D., F.R.S.

SENIOR DIVISION.

FIRST-CLASS CERTIFICATES.

James F. Bennett (Medallist).	
Hugh C. Ferguson.	
James R. Chalmers,	} Equal.
Anderson G. M'Kendrick,	
Norman F. M'Leod,	
Alexander Wilson.	
*William Wright.	

COMMENDED.

Charles P. Thomson.	
Robert O. Whyte, M.A.	
Ebenezer Mitchell, M.A.	
John M'Millan.	
Norman M. Miller.	
*Alexander S. Wells, M.A.	
*James A. Dickie.	

JUNIOR DIVISION.

FIRST-CLASS CERTIFICATES.

Edward P. Cathcart (Medallist).	
Andrew Mair.	
Robert M. Marshall.	
*Allan Martin,	} Equal.
*John D. Richmond,	

COMMENDED.

James Millar, M.A.	
Leonard Findlay.	
Robert Clark,	} Equal.
David Shannon,	
Charles C. Cuthbert, M.A.,	
Alexander Birch,	
James Davidson, M.A.	

* Absent from one Examination.

CLINICAL SURGERY.

PROFESSOR GEORGE BUCHANAN, M.A., M.D., LL.D.

SENIOR DIVISION.

UNIVERSITY MEDAL—David Kyle, M.A.

CERTIFICATES OF MERIT.

- | | |
|-------------------------|---------------------|
| 1. Donald Douglas, M.A. | 2. Thomas Richmond. |
| | 3. George H. Clark. |

JUNIOR DIVISION.

UNIVERSITY MEDAL—Donald Steel.

CERTIFICATES OF MERIT.

- | | |
|-----------------------|------------------------|
| 1. Joseph White, M.A. | 2. James Walker. |
| | 3. Robert D. Campbell. |

PRACTICE OF MEDICINE.

PROFESSOR SIR WILLIAM T. GAIRDNER, K.C.B., M.D., LL.D., F.R.S.

MEDALLIST—David M. Cowan, Maybole

FIRST-CLASS CERTIFICATES (in order of merit).

David M. Cowan, Maybole.	Hugh C. Ferguson, Greenock.
--------------------------	-----------------------------

SECOND-CLASS CERTIFICATES (in alphabetical order).

James O. Barclay, Kilmarnock.	Norman M. Leys, Middlesex.
John D. Brownlie, Glasgow.	John Lockhart, Glasgow.
George F. Buchan, Cleland.	William B. I. Pollock, Glasgow.
Charles C. Cuthbert, M.A., Glasgow.	George White, Glasgow.
	John D. Young, Glasgow.

CLINICAL MEDICINE.

PROFESSOR SIR WILLIAM T. GAIRDNER, K.C.B., M.D., LL.D., F.R.S.

Summer Session, 1898.

MEDAL—Ebenezer Mitchell, M.A., Kilmarnock.

FIRST-CLASS CERTIFICATES (in order of merit).

Ebenezer Mitchell, M.A.	Hugh Miller, Glasgow.
David M. Cowan, Maybole.	John W. Leitch, M.A., Port-Glasgow.

A Special Certificate of the First-Class was awarded to John Crow, Glasgow, the Medallist of Winter Session 1896-97.

Special Prize for Notes of Lectures and Clinical Demonstrations:—

Alexander Wilson, Bearsden.

Second Prize for the same:—

Andrew Brownlie, Strathaven.

SECOND-CLASS CERTIFICATES (in alphabetical order).

Alexander Birch, Girvan.	Charles F. Maclean, Inverness.
Andrew Brownlie, Strathaven.	Thomas B. Riddall, Ayr.
Hugh C. Ferguson, Greenock.	William A. Riddell, Glasgow.
Alexander Fraser, M.A., Glasgow.	Alexander Wilson, Bearsden.

Winter Session, 1898-99.

FIRST-CLASS CERTIFICATES (in order of merit).

George Gardner, New Kilpatrick, }
 Alex. Laurie Watson, M.A., Ayr, } Equal—Medallists.
 James D. Lickley, Liverpool.

Special Prize for Notes of Clinical Lectures and Demonstrations:—

1. Alex. Laurie Watson, M.A., Ayr. 2. James C. Turnbull, Glasgow.

SECOND-CLASS CERTIFICATES (in alphabetical order).

John Craig, Strathaven. George White, Glasgow.
 James C. Turnbull, Glasgow. John Young, Glasgow.

CLINICAL MEDICINE.

PROFESSOR THOMAS M'CALL ANDERSON, M.D.

Summer Session, 1898.

FIRST-CLASS CERTIFICATES (in order of merit).

SENIOR DIVISION.

1. John J. Buchan. 3. Robert Fullarton, M.A.
 2. James A. Mitchell. 4. John Aitken.

JUNIOR DIVISION.

1. Samuel J. Cameron. 2. George F. Buchan.

Winter Session, 1898-99.

MEDALLIST—David M. Cowan.

FIRST-CLASS CERTIFICATES (in order of merit).

1. Peter A. Steven. 2. James J. Smith.
 3. Alfred G. Stewart.

JUNIOR DIVISION.

MEDALLIST—Samuel J. Cameron.

FIRST-CLASS CERTIFICATES (in order of merit).

1. Thomas Adam, M.A. 2. Andrew Stewart.
 3. Robert Ramsey.

MIDWIFERY.

PROFESSOR MURDOCH CAMERON, M.D.

MEDALLIST—Alex. Laurie Watson, M.A.

FIRST-CLASS CERTIFICATES (alphabetically arranged).

James R. Chalmers. Charles F. Maclean.
 James A. Dickie. Alfred G. Stewart.
 Anderson G. M'Kendrick. Alex. Laurie Watson, M.A.

SECOND-CLASS CERTIFICATES (alphabetically arranged).

Hugh C. Ferguson. Arthur Robin.
 Hyam Goodman, M.A. David J. Smith.
 Norman F. MacLeod. Charles P. Thomson.
 Hugh Miller. Alexander S. Wells, M.A.
 William A. Riddell. John Young.

DISEASES OF WOMEN.

PROFESSOR MURDOCH CAMERON, M.D.

Summer Session, 1898.

MEDALLIST—John J. Buchan.

FIRST-CLASS CERTIFICATES (alphabetically arranged).

John Brunton.	James Scott, M.A.
John J. Buchan.	Donald S. Sutherland.
William K. Hutton, M.A.	Alexander S. Wells, M.A.
Percival A. Mitchell.	

SECOND-CLASS CERTIFICATES (alphabetically arranged).

James Barrowman.	Ebenezer Mitchell, M.A.
George Gardner.	Thomas B. Riddall.
David S. Harvey.	William H. Steel, B.A.
Charles F. Maclean.	Henry N. Turner.
Peter M'Fadyen.	

INSANITY.

LECTURER—DAVID YELLOWLEES, M.D., LL.D.

Summer, 1898.

I. MACKINTOSH BURSAR—James A. Mitchell.

FIRST-CLASS CERTIFICATES.

2. Jessie D. Granger.	4. Alexander S. Wells, M.A.
3. George Gardner.	5. Alexander L. Watson, M.A.

SECOND-CLASS CERTIFICATES.

John M'Gilchrist.	Ilyam Goodman, M.A.
James H. MacDonald.	Auguste Boyes.
Maud Spencer.	

DISEASES OF THE EAR.

LECTURER—THOMAS BARR, M.D.

Summer, 1898.

PRIZES.

Robert Rennie.	David J. Smith.
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FIRST-CLASS CERTIFICATES.

John Patton.	Arthur Robin.
--------------	---------------

SECOND-CLASS CERTIFICATES.

Ramsay Millar.	John Gardner.
----------------	---------------

Winter, 1898-99.

PRIZES.

Charles A. Gourlay, M.A.	Andrew Brownlie.
--------------------------	------------------

FIRST-CLASS CERTIFICATES.

Charles C. Cuthbert, M.A.	Alexander Wilson.
---------------------------	-------------------

DISEASES OF THE THROAT AND NOSE.

LECTURER—JAMES WALKER DOWNIE, M.B.

Summer, 1898.

PRIZE.

David Fyfe.

FIRST-CLASS CERTIFICATES.

David Fyfe.

Frank A. Innes.

SECOND-CLASS CERTIFICATES.

John Gardner.

George Gardner.

Winter, 1898-99.

PRIZE AND FIRST-CLASS CERTIFICATE.

Robert Clark.

FIRST-CLASS CERTIFICATES.

John M'Millan.

Arthur Robin.

SECOND-CLASS CERTIFICATES.

Robert O. Whyte, M.A.

John Craig.

James G. Green.

PATHOLOGY.

LECTURER—ALEXANDER R. FERGUSON, M.B.

MEDALLIST—Alexander D. Thompson.

FIRST-CLASS CERTIFICATES (in order of merit).

Alexander D. Thompson.

Edgar W. Sharp.

William B. I. Pollock.

Leonard Findlay,

James D. Lickley.

Norman M. Leys,

James C. Turnbull.

James Millar, M.A., } Equal.

SECOND-CLASS CERTIFICATES (in order of merit).

John D. Richmond.

Alexander Fraser, M.A., }

Peter Moir, } Equal.

Robert M. Marshall,

Alexander Munro, }

Charles H. Gunson,

Reginald P. N. B. Bluett, } Equal.

Allan Martin, M.A., B.Sc.

John Young,

James Mackinnon, } Equal.

Jacob Mains,

PRACTICAL PATHOLOGY.

PROFESSOR JOSEPH COATS, M.D.

Summer, 1898.

JOHN HUNTER MEDAL—Charles C. Cuthbert, M.A.

FIRST-CLASS CERTIFICATES (in order of merit).

Leonard Findlay, } Equal.

William H. Brown,

John D. Richmond, }

Alexander Fraser, M.A., }

James Mackinnon.

James D. Gourlay,

Alexander Birch, } Equal.

Andrew Mair,

Edward P. Cathcart,

William B. I. Pollock, }

PRIZES FOR DRAWINGS OF CLASS SPECIMENS.

1. John D. Richmond.

2. James C. Turnbull.

HONOURABLE MENTION—Alexander Fraser, M.A.

SECOND-CLASS CERTIFICATES (in order of merit).

Alexander Munro.	John D. Brownlie.
Eric D. Gairdner,	Robert Clark, } Equal.
Allan Martin, M.A.,	John Forrest, }
George White,	John T. Clark, } Equal.
James Dick, M.A.,	Thomas W. Wilson, }
James C. Turnbull,	Gregor H. G. Davie, } Equal.
Albert E. Wainwright,	Richard N. Petrie, }
Thomas H. Jack.	George Arthur.

MEDICAL JURISPRUDENCE AND PUBLIC HEALTH.

Summer Session, 1898.

PROFESSOR JOHN GLAISTER, M.D., D.P.H. (Camb.), F.R.S.E.

WILLIAM HUNTER MEDAL—George F. Buchan.

FIRST-CLASS CERTIFICATES (in order of merit).

James D. Lickley.	Allan Martin, M.A.
William B. Thomson.	Alexander Wilson.
John Lockhart.	William B. I. Pollock.
Albert E. Wainwright.	James Mackinnon, } Equal.
Charles P. Thomson.	Edward P. Cathcart,

SECOND-CLASS CERTIFICATES (in order of merit).

Charles C. Cuthbert, M.A.,	John Young,	} Equal.
James Millar, M.A.,	Alexander Birch,	
Duncan M. MacRae, M.A.,	John Middleton, M.A.,	
Hugh P. Wright,	John Strathearn,	
Frederic R. Stewart, M.A.,	Edgar W. Sharp,	
James C. Turnbull.	James C. Ross,	
John D. Richmond,	James Dick, M.A.,	
William B. Kerr,	Alexander Fraser, M.A.,	
	George T. Maclean, M.A.,	

ANATOMY.

PROFESSOR JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.

SENIOR CLASS.

MEDAL—William M. Brown.

FIRST-CLASS CERTIFICATES OF MERIT.

Samuel J. Cameron, } Equal.	Robert Ramsey.
Donald Steel,	

SECOND-CLASS CERTIFICATES OF MERIT.

Andrew Currie.	John Paton,	} Equal.
John S. Barr.	James N. Todd,	
William Archibald,	Douglas W. Hunter,	
David Kyle, M.A.,	William A. Milne,	
Francis J. Henry.	Daniel R. Kilpatrick.	
	Archibald Gow.	

JUNIOR CLASS.

MEDAL—Joseph White, M.A.

FIRST-CLASS CERTIFICATES OF MERIT.

John Guthrie.	
Samuel C. Cowan,	} Equal.
Andrew M. Kerr,	
Thomas W. Love,	

SECOND-CLASS CERTIFICATES OF MERIT.

Duncan Macfadyen.	Spencer Mort,	} Equal.
Thomas I. Wallace.	David Riddell,	

EMBRYOLOGY.

Summer, 1898.

LECTURER—JAMES F. GEMMILL, M.A., M.B.

PRIZE—Donald Steel.

FIRST-CLASS CERTIFICATES (in order of merit).

James M'Pherson, M.A.	Robert Cumming, B.D.,	} Equal.
Robert Ramsey.	David Kyle, M.A.,	
Samuel J. Cameron,	William Robertson.	
John Muir,	Robert G. White.	

PHYSIOLOGY.

PROFESSOR JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.

SYSTEMATIC.

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

William A. Milne.

FIRST-CLASS CERTIFICATES (in order of merit).

Joseph White, M.A.	John R. Gilmour.
John Ferguson, M.A.	Alexander A. MacFarlane.

SECOND-CLASS CERTIFICATES (in order of merit).

Archibald Leitch.	John Guthrie,	} Equal.
Alexander G. Banks.	Alexander M. M'Millan,	
Alexander Macintyre,	Andrew M. Kerr.	} Equal.
Alexander M. Nevin,	Samuel C. Cowan,	
John W. Renton,	James S. Nicolson,	

PRACTICAL PHYSIOLOGY.

Summer, 1898.

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Robert D. Campbell.

FIRST-CLASS CERTIFICATES (in order of merit).

Joseph G. Tomkinson.	James Walker.	} Equal.
Allan H. Muir.	Robert W. Valentine.	
Donald Douglas, M.A.	John Muir,	
William M. Brown,	Charles A. Gourlay, M.A.,	
John Morison,		

SECOND-CLASS CERTIFICATES (in order of merit).

John S. Barr,	George Ferguson.
Francis J. Henry,	William A. Milne.
James N. Todd.	William Robertson.
William A. Masson,	William Archibald.
Robert Cumming, B.D.,	

ADVANCED PRACTICAL PHYSIOLOGY.

Winter, 1898-99.

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Gertrude D. Bostock.

FIRST-CLASS CERTIFICATE.

John Muir.

SECOND-CLASS CERTIFICATES.

Agnes M. Brown,	} Equal.
David Kyle, M.A.,	

MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RALPH STOCKMAN, M.D.

MEDALLIST—Thomas Adam, M.A.

FIRST-CLASS CERTIFICATES (in order of merit).

James G. Millar.	Samuel J. Cameron.	} Equal.
Edward Magoveny,	Reginald N. Dunlop,	
William M. Brown,	David Kyle, M.A.,	
John Maclean.	James M'Pherson, M.A.,	
Robert D. Campbell,	William Dick.	
Douglas W. Hunter,	William R. Wylie.	

SECOND-CLASS CERTIFICATES (in order of merit).

William A. Milne,	George W. M'Millan.	} Equal.
John Unsworth,	Alexander M. Nevin,	
Donald Douglas, M.A.,	Robert Ramsey,	
Allan D. Mitchell,	James N. Todd,	
William Archibald,	Francis J. Henry.	} Equal.
William Robertson,	Robert J. Arthur,	
Andrew P. Granger.	Thomas Richmond,	
Alexander M. M'Millan,	William G. Rodger,	
Robert W. Valentine,	John C. Christie,	} Equal.
George Ferguson,	John S. Dale,	
James D. Gourlay,	Alexander Linn,	
John Stewart, M.A.,	John B. Stewart,	
William W. George.		

PRACTICAL PHARMACY.

PROFESSOR RALPH STOCKMAN, M.D.

Summer Session, 1898.

WILLIAM HUNTER MEDAL—Robert W. Auld.

FIRST-CLASS CERTIFICATES (in order of merit).

Dugald H. Macphail.	
James Walker.	
Robert J. Mills,	} Equal.
Allan H. Muir,	
Andrew Currie,	} Equal.
Edward Magoveny,	

SECOND-CLASS CERTIFICATES (in order of merit).

John Morison,	} Equal.	Reginald N. Dunlop,	} Equal.
Robert Ramsey,		John Muir,	
William Robertson,		James N. Todd,	
James M'Pherson, M.A.,	} Equal.	William M. Brown,	} Equal.
James J. Sinclair,		William Gemmill,	
George S. Wallace,		William A. Milne,	
		John B. Stewart,	

Leslie C. B. Head.

BOTANY.

PROFESSOR F. O. BOWER, SC.D., F.R.S.

Summer, 1898.

MEDAL—William Boyd, M.A.

SPECIAL AGGREGATE PRIZE—Andrew F. Bell.

SECOND-CLASS CERTIFICATES.

Charles J. Ross.	Peter L. Sutherland.
Andrew M. Kerr.	Spencer Mort.
Archibald Leitch.	James P. Gilmour,
Thomas W. Love.	Alexander G. Banks,
Alexander Mathieson.	James Wilson.

PRACTICAL CLASS.

Summer, 1898.

MEDAL—William K. Anderson.

SPECIAL AGGREGATE PRIZE—Andrew F. Bell.

FIRST-CLASS CERTIFICATES.

James P. Gilmour.	John R. Thomas.
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SECOND-CLASS CERTIFICATES.

Archibald Leitch.	Alexander G. Banks,
Spencer Mort.	Alexander Mathieson,

HERBARIUM PRIZE—(No award.)

NATURAL HISTORY.

PROFESSOR JOHN YOUNG, M.D.

ZOOLOGY.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Norman H. W. Maclaren.

FIRST-CLASS CERTIFICATES.

Alexander Hunter.	William D. H. Stevenson.
Cunison C. Finlator.	James Forsyth.
Spencer Mort.	

SECOND-CLASS CERTIFICATES.

Norman B. Stewart,	} Equal.	John G. Hume,	} Equal.
Peter L. Sutherland,		David G. Dykes,	
Thomas Bennett.		Joseph Walker, M.A.	

PRACTICAL ZOOLOGY.

Summer, 1898.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Norman H. W. Maclaren.

SECOND-CLASS CERTIFICATES.

Alexander Matheson.

Robert T. Wells.

Winter, 1898-99.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

William D. H. Stevenson.

FIRST-CLASS CERTIFICATES.

Carl H. Browning,	} Equal.
Conison C. Finlator,	

SECOND-CLASS CERTIFICATE.

George G. Smith.

GEOLOGY.—See Faculty of Science, p. 422.

PHYSICS.

LECTURER—MAGNUS MACLEAN, M.A., D.Sc., F.R.S.E.

Summer, 1898.

JOSEPH BLACK MEDAL—Archibald Leitch.

FIRST-CLASS CERTIFICATES.

Alexander A. Macfarlane.

Andrew A. M'Whan,	} Equal.
Joseph Walker,	

Andrew F. Bell.

Andrew M. Kerr.

PRACTICAL CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

Summer, 1898.

JOSEPH BLACK MEDAL—William A. Milne.

FIRST-CLASS CERTIFICATES.

John G. Hume.

William A. Milne.

SECOND-CLASS CERTIFICATES.

Alexander A. Carruthers.

William Dow.

CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

JOSEPH BLACK MEDAL—William H. Ballantyne.

FIRST-CLASS CERTIFICATES.

William H. Ballantyne.

Peter L. Sutherland.

Arthur G. H. Elder.

James Vost.

George G. Smith.

Joseph Walker, M.A.

SECOND-CLASS CERTIFICATES.

John Brown.
 Carl H. Browning.
 James Craig.
 Robert Donald.
 Cunison C. Finlator.

John M. Kelly.
 James Leckie.
 Spencer Mort.
 Peter H. Robertson.
 John W. Sutherland.

Faculty of Science.

ENGINEERING.

PROFESSOR ARCHIBALD BARR, D.Sc., M.I.C.E.

THE GEORGE HARVEY PRIZE.

John S. Nicholson, Alford, }
 William V. Shearer, Langside, } Equal.

Next in Order of Merit.

John G. Henderson, Glasgow.

WALKER PRIZES.

1. { John S. Nicholson, Alford, }
 { William V. Shearer, Langside, } Equal.
3. { John G. Henderson, Glasgow, }
 { William Walker, Dumbarton, } Equal.

CLASS IV.

1. John S. Nicholson, Alford.

2. William V. Shearer, Langside.

Next in Order of Merit.

John G. Henderson, Glasgow.
 William Walker, Dumbarton.

George A. Inglis, Glasgow.

CLASS II.

1. William G. Strang, Uddingston.

2. John G. Henderson, Glasgow.

Next in Order of Merit.

Archibald Scott, Millerston.

CLASS I.

1. { Frederick L. Hislop, Paisley, }
 { Alfred J. Wilson, Lenzie, } Equal.

Next in Order of Merit.

Anthony C. Coubrough, M.A., Blanefield.

ENGINEERING DRAWING AND CALCULATIONS—SENIOR.

1. John S. Nicholson, Alford.

2. John G. Henderson, Glasgow.

Next in Order of Merit.

Yoso Suzuki, Tokyo, Japan.

William V. Shearer, Langside.

JUNIOR.

1. Jas. A. Harden, New York, U.S.A.

2. Frederick L. Hislop, Paisley.

DEGREE AND PRIZE LIST.

ENGINEERING LABORATORY—MECHANICAL.

David Robertson, Uddingston.

ENGINEERING LABORATORY—ELECTRICAL.

Anthony C. Coubrough, M.A., Blanefield.

RECOMMENDED FOR MUIR BURSARIES.

Frederick L. Hislop, Paisley.

Archibald Leitch, Port-Glasgow.

ELECTRICAL ENGINEERING.

LECTURER—JOHN D. CORMACK, B.Sc., M.I.E.E.

PRIZE—Anthony C. Coubrough, M.A., Blanefield.

NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

PROFESSOR J. H. BILES.

SENIOR CLASS.

Robert M. Dyer, Glasgow.

JUNIOR CLASS.

Seiichi Terano, Japan.

SENIOR DRAWING CLASS.

Hugh M. MacMillan, Govan.

ELECTRICITY—PURE AND APPLIED.

LECTURER—MAGNUS MACLEAN, M.A., D.Sc., F.R.S.E.

Summer, 1898.

FIRST-CLASS CERTIFICATES.

1. David Robertson.

2. Vincent J. Blyth.

GEOLOGY.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE—William G. Strang.

SECOND-CLASS CERTIFICATES.

Andrew Smith.

Archibald Leitch.

William E. Busby.

Faculty of Arts.

HISTORY.

PROFESSOR RICHARD LODGE, M.A.

HONOURS CLASS.

1. John Lochhead—Prize.

Distinguished in Work of Class.

2.	{	Harry Diamond.
James N. Duguid, M.A.		

Janet Spens.

5. Ritchie Girvan.

ORDINARY CLASS.

Prizes.

1. Charles A. Young.
2. { James N. Duguid, M.A.
John Rafferty.
4. { Richard L. Franks.
Janet Spens.
6. { William H. Buchan.
Kenneth K. M. Leys.

Distinguished in Work of Class.

8. May S. M'Clure.
9. Robert S. Dewar.
10. Hugh Watt.
11. Stanley H. Turner.
12. Margaret L. Anderson.
13. Walter Ross Taylor.
14. James Hood.
15. Joseph Barnes.
16. George Condie.

CONSTITUTIONAL LAW AND HISTORY, } See Faculty of Law, pp.
 ROMAN LAW, - - - - - } 409, 410.
 PUBLIC LAW, - - - - - }

MATHEMATICS.

PROFESSOR WILLIAM JACK, M.A., LL.D.

ADVANCED HONOURS CLASS.

David K. Picken (Second-Year Student).

1. Francis P. H. Stirling (Cunninghame Gold Medal).
2. { William Anderson, } *proxime accesserunt*.
Robert B. Carslaw, }

INTERMEDIATE HONOURS CLASS.

1. *Alfred J. Wilson.
2. Roderick M. Nicol.
3. David A. Dick.
4. John G. Johnstone.
5. James B. Galbraith.

Additional Prize—John C. Mann.

* Mr. Wilson also gains the Senior Muir Bursary in Mathematics under the conditions stated in the Calendar.

SECOND CLASS.

1. *William Sutherland (B Division).
2. Robert Jack (A Division).
3. William L. Thompson (A Division).
4. William Brown (B Division).
5. Thomas M. Hunter (B Division).
6. { James Cosh (B Division).
Walter L. Henderson (B Division).
Dougald B. M'Quistan (A Division).
Robert Millar (B Division).
10. { John Bain (B Division).
Robert Irvine (A Division).
Muriel G. Lindsay (Queen Margaret).

* Mr. Sutherland also gains the Junior Muir Bursary in Mathematics under the conditions stated in the Calendar.

FIRST CLASS.—Frederick L. Hislop.

*Summer, 1898.*LECTURERS—HORATIO S. CARSLAW, M.A. (Glasg. and Cantab.),
AND WILLIAM A. LINDSAY, M.A.

Prizes.

1. George H. Stevenson.
2. Paul H. Lazenby.

NATURAL PHILOSOPHY.

PROFESSOR LORD KELVIN, G.C.V.O., F.R.S., &c.

APPLIED HIGHER MATHEMATICS.

1. David K. Picken, Glasgow.
3. William G. Strang, Uddingston.
2. Enju Odagiri, Japan.
4. Robert M. Dyer, Glasgow.

ORDINARY CLASS.

1. Alfred J. Wilson, Lenzie (Cleveland Gold Medal).
2. James Sinclair, Glasgow.
3. Alexander Cross, Port-of-Monteith Station.
4. James F. Dyer, Glasgow.
5. Francis P. H. Stirling, Paisley.
6. William Hyslop, Cumnock.
7. William Brown, Fauldhouse.
8. { John C. Mann, Glasgow.
- { William H. Love, M.A., Greenock.
10. Alexander B. Lamont, Glasgow.

PHYSICAL LABORATORY.—Alfred J. Wilson, Lenzie.

CHEMISTRY,	}	See Faculty of Medicine, pp. 419-421.
ZOOLOGY,		
BOTANY,		
GEOLOGY,		
		See Faculty of Science, p. 422.

LOGIC AND METAPHYSICS.

PROFESSOR ROBERT ADAMSON, M.A., LL.D.

HONOURS CLASS.

1. Duncan M'Taggart, Paisley.
2. Mabel Atkinson, Glasgow.

ORDINARY CLASS.

Prizes.

1. George H. Stevenson, Glasgow (Buchanan Prize).
2. { David G. Taylor, Glasgow.
- { Charles A. Young, Stirling, } Equal.
4. Mary C. Cameron, Glasgow.
5. { Eric J. Roberts, Upper Norwood, Surrey, } Equal.
- { Samuel Wilson, Maybole,
7. David J. M'Leish, Crieff.
8. William Forsyth, Greenock.
9. Hugh Watt, Kilmaurs.
10. John T. Arnott, Kinloch, Perthshire.

Certificates of Merit.

1. William R. Dow, Glasgow.
2. William Douglas, Glasgow.
3. Stanley H. Turner, Bradford, Yorkshire.

4. Thomas M. Smith, Dunoon.
5. David R. M. Keir, Dennyloanhead.
6. James H. Steel, Glasgow.
7. Alexander Goldie, Newmilns.
8. Charles G. M'Ilravey, Greenock.
9. William Richard Wiseman, Glasgow.
10. George Muir, Dunoon.
11. Robert Alexander, Ayr.

MORAL PHILOSOPHY.

PROFESSOR HENRY JONES, M.A., LL.D.

HONOURS CLASS.

Duncan M'Taggart (Edward Caird Medal).

ORDINARY CLASS.

Prizes and First-Class Certificates of Merit for General Eminence in the Essays, Exercises, and Examinations of the Class.

1. James M. Black (Buchanan Prize).
2. Daniel O'May.
3. { John Rafferty.
- { Alexander Strang.
5. David L. Blair, M.A.
6. { John Guthrie.
- { William Richard Wiseman.
8. { Margaret G. Fulton.
- { John Gillies.

FIRST-CLASS CERTIFICATES OF MERIT.

Charles G. M'Ilravey.
Samuel F. H. Mackay.

Andrew M'Kerral.
Alfred S. Rogen.

POLITICAL ECONOMY.

PROFESSOR WILLIAM SMART, M.A., LL.D., D.Phil.

1. Thomas Jones.
2. John F. Young.
3. { Mabel Atkinson.
- { Robert Henderson Begg.
- { Daniel O'May.
6. { Richard L. Franks.
- { James Hall Steel.

Proxime Accesserunt.

Alexander B. Lamont.
James N. Duguid, M.A.
Daniel K. Campbell.
Louis Niel Gow.
James Steel.
James Sinclair.

Kyle Thomson.
Thomas M'Dougall.
John Mitchell.
George Mitchell.
George Faulds.
John Faichney.

EDUCATION.

LECTURER—DAVID ROSS, M.A., B.Sc., LL.D.

PRIZES.

- | | |
|-------------------------|---------------------|
| 1. William Runciman. | 4. Peter M'Dougall. |
| 2. Matthew Whiteford. | 5. James Sinclair. |
| 3. Alexander B. Lamont. | 6. Robert R. Rusk. |

ESSAY PRIZE.

Matthew Whiteford, } Equal.
 Peter M'Dougall, }

FIRST-CLASS CERTIFICATES.

William Bennett.
 Dugald Blue.
 David G. Carmichael.
 John Copeland.
 Andrew Cranston.
 John Docherty.
 John Drury.
 Louis Niel Gow.

John M. Hay.
 Andrew Henderson.
 Isaac Keen.
 Frederick Mort.
 David Morton.
 Thomas Peebles.
 John Reid.
 George Salmond.

PHILOSOPHY OF LAW—See JURISPRUDENCE, under Faculty of Law, p. 410.

HUMANITY.

PROFESSOR GEORGE G. RAMSAY, M.A., LL.D., Litt.Doc.

I. Prizes for General Excellence in the Work of the Session.

PRIVATE AND HONOURS CLASS, 1 P.M.

MUIRHEAD PRIZES.

Books read—*Lucretius, I., II.*; *Catullus*; *Tacitus, Annals, II.*; and *Virgil, Æneid, VIII.*

1. George H. Stevenson, Glasgow (Glasgow Academy).
2. James F. Dyer, Glasgow (Glasgow Academy and Allan Glen's School).
3. Arthur S. Hutchison, Stirling (Stirling High School).

SENIOR CLASS, 9 A.M.

THE COWAN GOLD MEDAL.

1. George N. Morrison, Dunblane (George Watson's School).

ORDINARY PRIZES.

2. Matthew Stewart, Glasgow (Glasgow High School).
3. Kyle Thomson, Uddingston (Glasgow High School).
4. George Beaumont, Lanark (Lanark Grammar School).
5. Hamilton Crawford, Paisley (Paisley Grammar School).
6. William R. W. Merry, Dumfries (Dumfries Academy).
7. John R. Cameron, Ardrossan (Ayr Academy).
8. Joseph MacInnes, Glasgow (Dunvegan Public School).
9. William H. Andrew, Campbeltown (Campbeltown Grammar School).
10. William H. Coats, Glasgow (Glasgow High School).
11. John M. Richardson, Stirling (Stirling High School).

MIDDLE CLASS, 8 AND 11 A.M.

1. Harold Wilson, Bearsden (Bearsden Public School).
2. Robert K. Goodfellow, Irvine (Irvine Academy).
3. Robert Cunningham, Lanark (Lanark Grammar School).
1. Robert Ross Scourie (Glasgow High School and Bowmore Public School).
5. John M. McGauley, Greenock (Greenock Academy).

JUNIOR CLASS, 8 A.M.

Thomas Stewart, Glasgow (Allan Glen's School).

II. For Latin Prose Composition. Senior Class.

SECTION I.

1. James M'Clelland, Ayr (Ayr Academy).
2. { William A. Edward, Portsmouth (Overnewton Public School).
 { David G. Taylor, Glasgow (Allan Glen's School).

SECTION II.

George Beaumont, Manchester (Lanark Grammar School).

III. Vacation Exercises.

Open to the Senior Class of 1897-8 for Repetition of Horace, *Odes II.* and *Ars Poetica.*

Owen L. Jones.

Open to the Senior Class of 1898-9 for Repetition of Virgil, *Georgic IV.*, 1-218, 415-566.

Equal, { George Beaumont.
 { John Safely, Carluke (Carluk Public School).

FOR LATIN PROSE.

Open to the Senior Class of 1897-8, for a Latin Essay on Sejanus.

David M. Hutchison, Glasgow.

Open to the Senior Class of 1898-9.

George Beaumont, Manchester.

LATIN BLACKSTONE EXAMINATION.

THE COWAN GOLD MEDAL.

George H. Stevenson, Glasgow.

Summer, 1898.

LECTURER—JOHN BROWN.

PRIZES.

1. Francis P. H. Stirling.
2. Joseph Barnes.
3. Margaret H. Livingston.

GREEK.

PROFESSOR GEORGE G. A. MURRAY, M.A.

I. Prizes for General Excellence in Work during the Session.

HONOURS CLASS.

1. George H. Stevenson.
2. Lucy P. Johnston.
3. David G. Taylor.

COMPOSITION PRIZES.

1. George H. Stevenson.
2. David M. Hutchison.

SENIOR CLASS.

JEFFREY GOLD MEDAL—Peter Hately Waddell.

ORDINARY PRIZES.

- | | |
|-------------------------|-------------------------|
| 1. *George N. Morrison. | 5. William R. W. Merry. |
| 2. May S. M'Clure. | 6. Matthew Stewart. |
| 3. James Moyes. | 7. William T. Ritchie. |
| 4. James Struthers. | |

SPECIAL PRIZE—*George Beaumont.

COMPOSITION PRIZE—George N. Morrison.

HISTORY PRIZES—1. James Moyes and Alexander Bayne.

MIDDLE CLASS.

SCOTT-MACFARLAN GOLD MEDAL—Archibald Lang.

ORDINARY PRIZES.

- | | |
|--------------------------|-------------------------|
| 1. { Robert Cunningham. | 4. John M. M'Gauley. |
| { *Robert K. Goodfellow. | 5. Clarence J. Vincent. |
| 3. Alexander Moffatt. | 6. Robert Ross. |

JUNIOR CLASS.

- | | |
|---------------------|----------------------|
| 1. Norman Matheson. | 2. Duncan Mackenzie. |
|---------------------|----------------------|

II. Vacation Prizes.

1. *Greek Prose.*

George H. Stevenson.

David G. Taylor.

2. *Examination in Aeschylus*—"Agamemnon."

David G. Taylor.

James Jack.

David M. Hutchison.

George N. Morrison.

3. *Repetition of Sophocles*' "*Antigone*"—George H. Stevenson.4. *Ancient History.*

George H. Stevenson.

David G. Taylor.

BLACKSTONE EXAMINATION.

COWAN GOLD MEDAL—George H. Stevenson.

Proxime accessit—George Douglas Reith.*Summer, 1898.*

LECTURER—W. H. BALGARNIE, B.A.

PRIZE—Francis P. H. Stirling.

ENGLISH LITERATURE.

PROFESSOR ANDREW CECIL BRADLEY, M.A.

HONOURS CLASS.

- | | |
|--------------------|--------------------|
| 1. George Ogilvie. | 2. Ritchie Girvan. |
|--------------------|--------------------|

ORDINARY CLASS.

- | | |
|--|------------------------|
| 1. Steuart N. Miller (Buchanan Prize). | 5. John V. M'Neill. |
| 2. William A. Edward. | 6. { James M. Black. |
| 3. Samuel F. H. Mackay. | { Samuel Wilson. |
| 4. William Reid Wiseman. | 8. Alexander Matheson. |
| | 9. John Muir. |

* Absent from part of the written work.

1. David L. Blair, M.A.
2. John Gray.
3. David W. B. F. Campbell.
4. { George Carstairs.
John Gillies.
6. Malcolm Hutton.
7. Kyle Thomson.
8. John M. Blackwell.

VACATION WORK—Alexander B. Mackay.

Alexander H. Macpherson.

HEBREW—See Faculty of Theology, p. 407.

Margaret M. Ritchie.

Auguste Boyes.

(See under Men's Department.)

Lila S. Greig.

SECOND-CLASS CERTIFICATES.

Jessie S. B. Hunter.

Sara M. Robertson.

Mabel Talbot.

PATHOLOGY.

LECTURER—CHARLES WORKMAN, M.D.

MEDAL—Mary J. Pirret.

FIRST-CLASS CERTIFICATES.

Alicie Miles.

Agnes B. Sloan.

SECOND-CLASS CERTIFICATE—Janet B. Higgins.

PRACTICAL PATHOLOGY.

Summer, 1898.

MEDAL—Christian C. W. Smith.

FIRST-CLASS CERTIFICATES.

Lizzie T. Fraser.

Mary F. Liston.

SECOND-CLASS CERTIFICATES.

Gertrude J. Campbell.

Jean M. F. Marshall.

Mabel Talbot.

MEDICAL JURISPRUDENCE AND PUBLIC HEALTH.

PROFESSOR JOHN GLAISTER, M.D.

MEDAL—Christian C. W. Smith.

FIRST-CLASS CERTIFICATES.

Lizzie T. Fraser.

Helen M. Gordon.

Jean M. F. Marshall.

Gertrude J. Campbell.

SECOND-CLASS CERTIFICATES.

Lila S. Greig.

Mary F. Liston.

ANATOMY.

LECTURER—THOMAS H. BRYCE, M.A., M.B.

Winter, 1898-99.

SENIOR ANATOMY.

MEDAL—Elizabeth M. Sloan.

FIRST-CLASS CERTIFICATES.

Agnes B. Sloan.

Alice Moorhouse.

SECOND-CLASS CERTIFICATES.

Mary J. Pirret.

Agnes M. Brown.

JUNIOR ANATOMY.

MEDAL—Martha H. Scott.

SECOND-CLASS CERTIFICATES.

Minna Edgar.

Ethel J. M. Pryce.

Summer, 1898.

1. Gertrude D. Bostock. 2. $\left. \begin{array}{l} \text{Elizabeth M. Sloan,} \\ \text{Agnes B. Sloan,} \end{array} \right\} \text{Equal.}$

Kate Fraser. Agnes M. Brown.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S.

FIRST-CLASS CERTIFICATE—Minna Edgar.

Kate Fraser. Martha H. Scott. Margaret H. Smart.

MEDAL—Gertrude D. Bostock.

SECOND-CLASS CERTIFICATE—Agnes M. Brown.

Summer, 1898.

MEDAL—Gertrude D. Bostock.

Agnes B. Sloan, } Equal. Alice Moorhouse, } Equal.
Elizabeth M. Sloan, }
Mary J. Pirret. }

Janet T. Miller. Agnes M. Brown.

LECTURER—WILLIAM MACLENNAN, M.B., C.M.

FIRST-CLASS CERTIFICATE—Elizabeth M. Sloan.

Agnes B. Sloan, } Equal.
Jane Campbell, }

Minna Edgar, } Equal.
Janet T. Miller, }

Summer, 1898.

PROFESSOR RALPH STOCKMAN, M.D.

MEDAL—Jessie S. M'Ewen.

Mary J. Pirret. Gertrude D. Bostock.

BOTANY.

LECTURER—WILLIAM H. LANG, B.Sc., M.B.
SYSTEMATIC.

SECOND-CLASS CERTIFICATES.

Jeanie Auld.

Helen M. Armour.

PRACTICAL.

MEDAL—Ethel Chapman.

FIRST-CLASS CERTIFICATES.

Helen M. Armour.

Edith M. Sladden.

SECOND-CLASS CERTIFICATES.

Jane S. M'Lauchlan.

Charlotte R. Park.

Janet G. Waddell.

ZOOLOGY.

PROFESSOR JOHN YOUNG, M.D., AND JAMES RANKIN, B.Sc., M.B., C.M.
SYSTEMATIC.

MEDAL—Edith M. Lochhead.

SECOND-CLASS CERTIFICATES.

Agnes W. Cameron.
Mary Clow Cameron.

Emilia A. E. M'Cosh.
Jeanie Auld.

PRACTICAL.

SECOND-CLASS CERTIFICATES.

Agnes W. Cameron.
Jeanie Auld.

Mary Clow Cameron, } Equal.
Ethel M. Lochhead, }
Emilia A. E. M'Cosh.

PHYSICS.

LECTURER—PROFESSOR JAMES BLYTH, M.A., F.R.S.E.

MEDAL—Eliza J. Miller.

FIRST-CLASS CERTIFICATES.

Margaret Hardy.

Anna P. Martin.

Alice W. Maclean.

SECOND-CLASS CERTIFICATES.

Isabel D. Mitchell.

Jessie M. Stewart.

Jessie G. Duncan.

CHEMISTRY.

LECTURER—THOMAS GRAY, B.Sc.

SYSTEMATIC.

MEDAL—Jeanie Auld.

FIRST-CLASS CERTIFICATES.

Jessie G. Duncan.

Eliza J. Miller.

SECOND-CLASS CERTIFICATES.

Margaret Hardy.
Anna P. Martin.

Alice W. Maclean,
Mary Charlotte Cameron, } Equal.

PRACTICAL.

SECOND-CLASS CERTIFICATES.

Alice W. Maclean.
Jessie G. Duncan.

Elisabeth T. Talbert.
Mary Charlotte Cameron.

HISTORY.

PROFESSOR RICHARD LODGE, M.A.

HONOURS CLASS.

Janet Spens. (See under Men's Department.)

ORDINARY CLASS.

Janet Spens. May S. M'Clure. Margaret L. Anderson.
(See under Men's Department.)

CONSTITUTIONAL LAW AND HISTORY.

LECTURER—WILLIAM S. M'KECHNIE, M.A., LL.B., D.Phil.

HONOURS CLASS.

Maude G. May. (See under Men's Department.)

MATHEMATICS.

PROFESSOR WILLIAM JACK, LL.D. ; HORATIO S. CARSLAW, M.A. ; AND
WILLIAM E. PHILIP, M.A.

SECOND CLASS.

Muriel G. Lindsay. (See under Men's Department.)

NATURAL PHILOSOPHY.

LECTURER—PROFESSOR JAMES BLYTH, M.A., F.R.S.E.

FIRST-CLASS CERTIFICATES.

Alice M. Lochhead.
Christian E. S. Smart.

Margaret H. Livingston.
Helena D. Hunt.

LOGIC AND METAPHYSICS (AT THE UNIVERSITY).

PROFESSOR ROBERT ADAMSON, M.A., LL.D.

HONOURS CLASS.

Mabel Atkinson. (See under Men's Department.)

ORDINARY CLASS.

Mary Clow Cameron. (See under Men's Department.)

MORAL PHILOSOPHY (AT THE UNIVERSITY).

PROFESSOR HENRY JONES, M.A., LL.D.

Margaret G. Fulton. (See under Men's Department.)

MORAL PHILOSOPHY (AT QUEEN MARGARET COLLEGE).

LECTURER—ROBERT A. DUFF, M.A.

PRIZE AND FIRST-CLASS CERTIFICATE—Susan J. Russell.

FIRST-CLASS CERTIFICATE—Margaret M. Stark.

POLITICAL ECONOMY.

PROFESSOR WILLIAM SMART, M.A., LL.D., D.Phil.

HONOURS CLASS.

Mabel Atkinson. (See under Men's Department.)

EDUCATION.

LECTURER—DAVID ROSS, M.A., B.Sc., LL.D.

PRIZES.

- | | | |
|---------------------|----------|--------------------|
| 1. Agnes H. Forbes, | } Equal. | 4. Mary Robertson. |
| Annie I. Galbraith, | | 5. Agnes Stewart. |
| Jessie F. Smith, | | 6. Mary A. Thom. |

ESSAY PRIZE—Rose Solomon.

FIRST-CLASS CERTIFICATES.

Annie M. M. Bertram.

Mary G. M'Comb.

Jennie Dick.

Helen M. M'Intyre.

LATIN.

Summer, 1898.

LECTURER—JOHN BROWN, M.A.

Margaret H. Livingston. (See under Men's Department.)

GREEK.

PROFESSOR G. G. A. MURRAY, M.A., AND GEORGE MACDONALD, M.A.

HONOURS CLASS.

Lucy P. Johnston. (See under Men's Department.)

SENIOR CLASS.

May S. M'Clure. (See under Men's Department.)

ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR A. C. BRADLEY, M.A.

HONOURS CLASS.

Margaret L. Anderson. (See under Men's Department.)

ORDINARY CLASS.

LECTURER—ADOLPHUS A. JACK, M.A.

PRIZES.

NICHOL MEMORIAL PRIZE.

- | | | | |
|----------------------|----------|-------------------------|----------|
| 1. Agnes Gibson, | } Equal. | 5. Alice M. B. Guthrie, | } Equal. |
| Annie E. Thompson, | | Frances M. M'Phun, | |
| 3. Elsa A. E. Münch, | } Equal. | Jane C. Thomson, | |
| Margaret Wilson, | | | |

GERMAN LANGUAGE AND LITERATURE.

LECTURER—ALEXANDER TILLE, M.A., Ph.D.

HONOURS CLASS.

FIRST-CLASS CERTIFICATES.

Minnie L. Arthur.

Jessie L. Gilchrist.

ORDINARY CLASS.

FIRST-CLASS CERTIFICATE—Marion K. Binnie.

XII.—EXAMINATION QUESTIONS.

I. PRELIMINARY EXAMINATION IN ARTS AND SCIENCE.

ENGLISH.

Saturday, 1st April, 1899.

FIRST PAPER—9 TO 11 A.M.

(FIVE, and not more than FIVE, questions are to be answered. Questions 1, 2 and 6 must be answered.)

1. Write an essay, from two to three pages long, on one of the following subjects:—

- (a) *Kenilworth* as history.
- (b) The Conquest of the Soudan.
- (c) The Arabian Nights.

2. Paraphrase the following:—

NIGHT AND DEATH.

Mysterious Night! when our first parent knew
 Thee from report divine, and heard thy name,
 Did he not tremble for this lovely frame,
 This glorious canopy of light and blue?
 Yet 'neath a curtain of translucent dew,
 Bathed in the rays of the great setting flame,
 Hesperus with the host of heaven came,
 And lo! Creation widened in man's view!
 Who could have thought such darkness lay concealed
 Within thy beams, O Sun? Or who could find,
 Whilst fly and leaf and insect stood revealed,
 That to such countless orbs thou mad'st us blind?
 Why do we, then, shun Death with anxious strife?
 If Light can thus deceive, wherefore not Life?

3. Give a *general* analysis of the following passage, and parse the words in italics:—

Her vision *rather* drave from passion's heart
What earthly soil it had afore possess;
 Since to man's purer unsubstantial part
 The brightness of her presence was address:

And *such as* mock'd at God, when once they saw
Her heavenly glance, were humbled, and, in awe
Of things unseen, *returned* to praise the *Best*.

4. (a) Re-write the following passage, substituting, where practicable, words of foreign for words of native stock, and *vice versa* :—

You wish the freedom of your country. You wish it for yourselves. You strive for it in many ways. Do not then give the hand of fellowship to the worst foes of freedom that the world has ever seen, and do not, I beseech you, bring down a curse upon your cause which no after-penitence can ever lift from it.

Or, (b) Derive EIGHT of the following words :—

Kindred, mate, mend, cheese, tile, monkey, contrive, chest, plea, fig, furl, paper, slave, dean.

5. Explain what is meant by the sequence of tenses. State the rules and give examples.

6. Re-write, so as to correct or improve, the following sentences, *giving reasons for any changes you may make* :—

(a) Wallace was not only the creator of a new kind of army, but of a nation—one of the most vigorous nations which has ever played a part in the conflicts of the world.

(b) We feel a higher pleasure in contemplating the multitude of our own virtues than those of others.

(c) Hitherto and before now neither man or woman or child turned back again to the same path which they have once deserted.

(d) Having perceived the silliness of his pretensions these are now disappearing like chaff before the sunshine.

SECOND PAPER—12 NOON TO 2 P.M.

(EIGHT, and not more than EIGHT, questions are to be answered. Of these, THREE must be taken from Section A (and of the THREE 2 or 5 must be ONE), THREE from Section B, and TWO from Section C.)

A.

1. Give some account of two or three (not more) of the following :—

(a) *Crotchet Castle*, *Pride and Prejudice*, *Annals of the Parish*, *Daniel Deronda*, *Sohrab and Rustum*, *The Gentle Shepherd*, *Adonais*, *Sesame and Lilies*.

Or, (b) Matthew Bramble, Balfour of Burley, Major Pendennis, Barbara Grant, Perdita, Sir Guyon, Grisildis, Shylock, Comus.

NOTE.—The answer to this question must indicate a first-hand acquaintance with the subjects chosen.

2. Write short notes on any three of the following, and a fuller account of the fourth :—

Brutus, Richard Varney, The Scholar Gipsy, and Pope as in Johnson's *Life*.

3. Discuss (a) Johnson's estimate of Pope's poetry ; or (b) the chief qualities of Matthew Arnold's poetry as shown in the book prescribed.

4. Give a full account of *one* of the following :—

- (a) The part played by Queen Elizabeth in *Kenilworth*.
- (b) Julius Cæsar as the subject of the play.
- (c) Hermod's journey to Hela's kingdom.
- (d) Pope in his relations with Swift, Arbuthnot, Bolingbroke and Warburton.

5. Write brief notes on :—

- (a) Who questions the Keeper of the Crystal Castle of Light, the Lord of the Green Lion, the Rider of the Red Dragon?
- (b) Oh, name him not ; let us not break with him.
For he will never follow anything
That other men begin.
- (c) Of your philosophy you make no use
If you give place to accidental evils.
- (d) Thon, too, O Thyrsis, on like quest wast bound !
Thou wanderdest with me for a little hour !
Men gave thee nothing : but this happy quest,
If men esteemed thee feeble, gave thee power.
- (e) Behold the stern, mailed father, staff in hand !
The little fair-haired son, with vacant gaze,
Where no more lights of sense or knowledge are.
- (f) Atossa, Atticus, the Man of Ross.

B.

- 1. Sketch the life of King Alfred.
- 2. Write notes on *four* of the following :—

Danish Invasions, Norman Conquest of England, Domesday Book, the Crusades, English Kings and the Papacy, Battle of Falkirk, Statutes of Labourers, Battle of Agincourt, Pilgrimage of Grace, Babington's Conspiracy, Conquest of Ireland.

3. Write notes on *four* of the following :—

Saint Augustine of Canterbury, Athelstan, Edward the Confessor, Strongbow, Hubert de Burgh, Edward the First, Sir William Wallace, Joan of Arc, Richard the Third, Cardinal Wolsey, Sir Thomas More, Sir Francis Drake, Regent Moray, Lord Burleigh.

4. How and why did the Reformation in England differ from the Reformation in Scotland?

5. Describe the struggle of England with France from 1339 to 1389.

6. Sketch the history of Scotland from the Battle of Flodden to the Union with England in 1603.

C.

1. Give a general account of the build, river-systems and natural resources of Spain.

2. Describe the district of Scotland immediately south of the Moray Firth ; mention the chief towns and the various industries.

3. Give a general description of Canada, indicating the divisions and chief towns, and remarking upon the trade of the Dominion.

4. Sketch the course of a railway from Cairo to Cape Colony, and explain how such a railway is expected to affect English commerce.

LOWER LATIN.

Monday, 3rd April, 1899, 9 A.M. TO 12 NOON.

1. Translate into English :—

Consul postquam detrectari certamen vidit postero die in consilium advocavit. “quid sibi faciendum *esset*, si Antiochus pugnandi copiam non faceret? *instare* hiemem: aut sub pellibus habendos milites, aut si concedere in hiberna vellet, differendum esse in aestatem bellum.” nullum unquam hostem Romani aequae contempserunt. conclamatum undique est “*duceret* extemplo et uteretur ardore militum”; qui tanquam non pugnandum eum tot milibus hostium, sed par numerus pecorum trucidandus esset, per fossas per vallum castra invadere parati erant, si in proelium hostis non exiret. Cn. Domitius ad explorandum iter, et qua parte adiri vallum hostium *posset*, missus, postquam omnia certa rettulit, postero die propius castra admoveri placuit; tertio signa in medium campi prolata et instrui acies coepta est. nec Antiochus ultra tergiversandum ratus, ne et suorum animos minueret detrectando certamen et hostium spem auget, et ipse copias eduxit, tantum progressus a castris ut dimicaturum appareret.

(a) In the above passage, account for the mood of the verbs in *italics*.

(b) Why is *coepta est* in the passive voice?

II. Translate into Latin :—

Having often received an invitation from my friend Sir Roger to pass away a month with him in the country, I last week accompanied him thither, and am settled with him for some time at his country house. Sir Roger, who is very well acquainted with my humour, lets me rise and go to bed when I please, dine at his table or in my chamber as I think fit. I am the more at ease in Sir Roger's family because it consists of sober and staid persons: for, as the knight is the best master in the world, he seldom changes his servants. I could not but observe with a great deal of pleasure the joy that appeared in the countenances of these ancient domestics at my friend's arrival. Some of them could not refrain from tears at the sight of their old master; every one of them pressed forward to do something for him.

III. GRAMMAR.

1. Give the gender, the genitive singular and the genitive plural of *ager*, *corpus*, *scutex*, *munus*, *manus*, *ciris*, *pes*, *heres*, *dies*, *agmen*.

2. Conjugate and give the meaning of *seco*, *ardeo*, *tondeo*, *auleo*, *carpo*, *spargo*, *tungo*, *suesco*, *nascor*, *nascior*.

3. Compare *utilis*, *dives*, *magnificus*, *graveriter*. What adverbs are formed from *ille* and *alius*? Give the Latin for *twenty times*, *the twentieth*, *two hundred*, *13th March*.

4. Give the exact meaning of *uter*, *uterque*, *utrinque*, *quisque*, *aliquis*, *quidam*, *quivis*. What case goes with each of the following prepositions: *inter*, *de*, *ob*, *ex*, *in*? Mark the quantity of the last syllable but one of *murus*, *opus*, *bonus*, *tibicen*, *trucidat*.

IV. SENTENCES.

Translate into Latin :—

1. He warned me that danger was at hand, but he did not warn me to flee from it.

2. He promised never to forget his friends.
3. It matters not to us whether you stay at home or go back to London.
4. In my opinion you ought to have written this letter ten days ago.
5. The greater the danger, the greater the glory ; and we shall show ourselves worthy of our ancestors.

HIGHER LATIN.

Tuesday, 4th April, 1899.

FIRST PAPER—9 TO 11 A.M.

I. FOR LATIN PROSE.

While they were in the midst of these discourses, dispersed in small parties, the tyrant arrived, and having summoned an assembly he congratulated the Syracusans upon their late victory, and promised in a short time to put an end to the war, and deliver them from the enemy. He was going to dismiss the assembly, when Theodorus, one of the most illustrious of the citizens, a person of sense and valour, took upon him to speak and to declare boldly for liberty. We are told, said he, of restoring peace, terminating the war, and of being delivered from the enemy. What signifies such language from Dionysius? Can we consider as peace the wretched state of slavery to which he has reduced us? Have we any enemy more to be dreaded than the tyrant that subverts our liberty, or a war more cruel than that he has made upon us for so many years? Let Imileo conquer, he will content himself with laying a tribute upon us, and leave us the exercise of our laws, but the tyrant that enslaves us knows no other than his avarice, his cruelty, his ambition !

II. GRAMMAR.

1. (a) Give the chief parts of *adiuro, tero, consero, reor*.
 (b) Parse the following and mark the quantity of each syllable :
elabantur, solabere, genuinus, adhibito.
2. (a) Write in Latin *eighty, eight hundred, twenty times, four each*.
 (b) Construct short sentences, with English translation, to illustrate the usage of the following words : *immo, ultro, adeo, aliquando, nedum, usque*.
 (c) What cases in Latin express (1) time within which, (2) time during which, (3) price, (4) agency? Give an example of each.
 (d) Illustrate the use of the subjunctive, either alone or with a particle, to express (1) a prohibition, (2) a wish, (3) a direct question.
3. Turn the following passage into *oratio obliqua* : Sequimini me et vestro imperatori, quam constituistis, operam date. Unum hoc proelium superest, quo confecto et ille suam dignitatem et nos nostram libertatem recuperabimus. Faciam hodie ut aut vivo mihi aut mortuo gratias agas.

SECOND PAPER—12 NOON TO 2 P.M.

I. TRANSLATION.

(a) Cum sibi nihil vivi reliquum praeterquam linguam ad deplorandas patriae suae calamitates praefatus esset, exposuit civitatis primum suae benefacta et vetera et ea quae Persei bello praestitissent ducibus exercitibusque Romanis; tum quae primo C. Lucretius in populares suos praetor Romanus superbe avare crudeliter fecisset, deinde quae tum cum maxime L. Hortensius faceret. Quem ad modum omnia sibi, etiam iis quae patiantur tristiora, patienda esse ducant potius, quam fide decedatur, sic quod ad Lucretium Hortensiumque attineret scire tutius fuisse claudere portas quam in urbem eos accipere. Qui exclusissent eos, Emathiam Amphipolim Maroneam Aenum incolumes esse: apud se templa omnibus ornamentis spoliata compilataque sacri-legiis C. Lucretium navibus Antium devexisse, libera corpora in servitutem abrepta, fortunas sociorum populi Romani direptas esse et quotidie diripi. Nam ex instituto C. Lucretii Hortensium quoque in tectis hieme pariter atque aestate navales socios habere, et domos suas plenas turba nantica esse.

- (b) Ubi comperi ex eis qui ei fuere conscii,
 Domum revertor maestus atque animo fere
 Perturbato atque incerto prae aegritudine.
 Assido: accurrunt servi: soccos detrahunt:
 Video alios festinare, lectos sternere,
 Coenam apparare: pro se quisque sedulo
 Faciebat, quo illam mihi lenirent miseriam.
 Ubi video haec, coepi cogitare: "Hem, tot mea
 Solius solliciti sint causa, ut me unum expleant?
 Ancillae tot me vestiant? Sumptus domi
 Tantos ego solus faciam? sed gnatum unicum,
 Quem pariter uti his decuit, aut etiam amplius,
 Quod illa aetas magis ad haec utenda idonea est,
 Eam ego hinc eieci miserum iniustitia mea.
 Malo quidem me dignum quovis deputem,
 Si id faciam. Nam usque dum ille vitam illam colet
 Inopem, carens patria ob meas iniurias,
 Interea usque illi de me supplicium dabo,
 Laborans, quaerens, parcens, illi serviens."

II. SENTENCES.

1. They say that but for this omen the city would have been built three miles from the shore.
2. Do not believe that I am too foolish to understand how much I have lost.
3. Whether the king accepts or refuses our aid, we hope that he will gain a signal victory over all his enemies.
4. Fearing to find less water the farther he advanced, Caesar halted at Noviodunum.
5. If you ask him why he does not repent of this crime, he will answer that he ought to be honoured by every good citizen.

LOWER GREEK.

Saturday, 1st April, 1899.—3 TO 6 P.M.

I. Translate:—

Καὶ κραυγὴ μὲν οὐδεμία παρήν, οὐ μὴν οὐδὲ σιγὴ, φωνὴ δέ τις ἦν τοιαύτη οἷαν ὀργήν τε καὶ μάχην παράσχοιτ' ἄν. τέλος δὲ τῶν Θηβαίων οἱ μὲν διαπίπτοισι πρὸς τὸν Ἑλικῶνα, πολλοὶ δ' ἀποχωροῦντες ἀπέθανον. ἐπειδὴ δὲ ἡ μὲν νίκη σὺν Ἀγχιλαῶν ἐγένετο, τετρωμένος δ' αὐτὸς προσηνέχθη πρὸς τὴν φάλαγγα, προσελάσαντες τινες τῶν ἱππέων λέγουσιν αὐτῷ ὅτι τῶν πολεμίων ὀγδοήκοντα σὺν τοῖς ὅπλοις ὑπὸ τῷ ναῶ εἰσι, καὶ ἡρώτων τί χρὴ ποιεῖν. ὁ δὲ καίπερ πολλὰ τραύματα ἔχων παντόσε καὶ παντοίοις ὅπλοις ὅμως οὐκ ἐπελάθετο τοῦ θείου, ἀλλ' ἔαν τε ἀπιέναι ὅποι βούλοιντο ἐκέλευε καὶ ἀδικεῖν οὐκ εἴα καὶ προπέμψαι ἐπέταξε τοὺς ἀμφ' αὐτὸν ἱππείας, ἔστε ἐν τῷ ἀσφαλεῖ ἐγένοντο. τότε μὲν οὖν, καὶ γὰρ ἦν ἡδὴ ὀψέ, συνελκύσαντες τοὺς τῶν πολεμίων νεκροὺς εἶσω φάλαγγος ἐδειπνοποιήσαντο καὶ ἐκοιμήθησαν.

II. GRAMMAR.

1. Parse, giving the 1st pers. sing. future active, aorist active, perfect active and aorist passive: ἐκπεπτωκυίας, διελέσθαι, ἐλάσαι.

2. Give the gen. sing. and dat. plur. of πατήρ, κύων, ὁδοίς, ὕδωρ, πούς, κέρας, γραῦς, γέρον, θρίξ, χεῖρ.

3. Compare αἰσχρός, σοφός, μωρός, σώφρων, φίλος, ἐρρωμένος.

4. Give the 1st pers. sing. future, aorist and perfect, in all voices used, of λαγχάνω, ἐσθίω, ἀκούω, ὀρώ, αἰσθάνομαι, φέρω.

5. Write:—

(a) The perfect infinitive middle or passive of πείθω, σπένδω, ἄγω.

(b) The 3rd sing. imperf. indic. of εἶναι, ἰέναι, ἰέναι, εἰδέναι, ἔπασθαι.

(c) The aorist infinitive active of ἔχω, πίνω, ἀναμνησκω, ἀποκτείνω, πίπτω, δείκνυμι.

6. Translate παρ' ἐμέ, παρ' ὑμῖν, παρ' ἐκείνῳ, ἐπ' ἐμοῦ, ἐπ' ἐμοί, ἐπ' ἐμέ, πρὸς τοῖτοῖς, πρὸς ταῦτα.

III. SENTENCES.

1. Do not give the book to any one.

2. You ought to have told me this.

3. If you learn from the sophist, you will be wise.

4. If you had been there, you would have seen your brother.

5. He did not know where the general was going.

HIGHER GREEK.

Wednesday, 5th April, 1899.

FIRST PAPER.—9 TO 11 A.M.

I. Translate :—

The Natural Advantages of Egypt.

Τὴν μὲν οὖν μητρῴαν ἀρχὴν ὑπερείδειν ἐλάττω νομίσας ἢ κατὰ τὴν αὐτοῦ φύσιν εἶναι, πλείστοις δὲ καταστρεψάμενος καὶ μεγίστην δύναμιν κτησάμενος ἐν Αἰγύπτῳ κατεστήσατο τὴν βασιλείαν, οὐκ ἐκ τῶν παρουσῶν μόνον ἀλλ' ἐξ ἀπασῶν προκρίνας τὴν ἐκεί πολλὴν διαφέρειν οἴκησιν. ἑώρα γὰρ τοὺς μὲν ἄλλους τόπους οὐκ εὐκαίρως οὐδ' εὐαρμόστως πρὸς τὴν τοῦ σύμπαντος φύσιν ἔχοντας, ἀλλὰ τοὺς μὲν ὑπ' ὄμβρων κατακλυζομένους, τοὺς δ' ὑπὸ κανμάτων διαφθειρομένους, ταύτην δὲ τὴν χώραν ἐν καλλίστῳ μὲν τοῦ κόσμου κειμένην, πλείστα δὲ καὶ παντοδαπώτατα φέρειν δυναμένην, ἀθανάτῳ δὲ τείχει τῷ Νείλῳ τετειχισμένην, ὃς οὐ μόνον φυλακὴν ἀλλὰ καὶ τροφὴν ἱκανὴν αὐτῇ παρέχειν πέφυκεν, ἀνάλωτος μὲν ὢν καὶ δύσμαχος τοῖς ἐπιβουλεύουσιν, εὐαγωγὸς δὲ καὶ πρὸς πολλὰ χρήσιμος τοῖς ἐντὸς αὐτοῦ κατοικοῦσιν. πρὸς γὰρ τοῖς προειρημένοις καὶ τὴν δύναμιν αὐτῶν πρὸς τὴν τῆς γῆς ἐργασίαν ἰσόθεον πεποίηκεν· τῶν γὰρ ὄμβρων καὶ τῶν αὐχμῶν τοῖς μὲν ἄλλοις ὁ Ζεὺς ταμίας ἐστίν, ἐκείνων δ' ἕκαστος ἀμφοτέρων τούτων αὐτὸς αὐτῷ κύριος καθέστηκεν.

II. Translate one or other of the following passages :—

(a) *The disaster of Salamis is announced to Atossa, the mother of Xerxes.*

ΑΓΓΕΛΟΣ.

Ξέρξης δ' ἀνῶμωξεν κακῶν ὁρῶν βάθος·
 ἔδραν γὰρ εἶχε παντὸς εὐαγῆ στρατοῦ,
 ὑψηλὸν ὄχθον ἄγχι πελαγίας ἁλός·
 ῥήξας δὲ πέπλους κἀνακωκύσας λιγί,
 περὶ παραγγείλας ἄφαρ στρατεύματι,
 ἦσ' ἀκόσμῳ ξὺν φυγῇ. τοιάνδε σοι
 πρὸς τῇ πάροιθε ξημφορὰν πύρα στένειν.

ΑΤΟΣΣΑ.

ὦ στυγνὲ δαίμον, ὥς ἄρ' ἔψενσας φρενῶν
 Πέρσας· πικρὰν δὲ παῖς ἐμὸς τιμωρίαν
 κλεινῶν Ἀθηνῶν ἡῖρε, κοῦκ ἀπήρκεσαν
 οὓς πρόσθε Μαραθῶν βαρβάρων ἀπώλεσεν,
 ὦν ἀντίποινα παῖς ἐμὸς πράξιν δοκῶν,
 τοσούνδε πλῆθος πημάτων ἐπέσπασεν.

- σὺν δ' εἰπὲν ταῶν αὖ πεφείγασιν μόνον,
 ποῦ τὰςδ' ἔλειπες; οἶσθα σιγημῆναι τορῶς;
 (h) “ Ἀτρείδῃ, σοὶ πρῶτα μαχήσομαι ἀφραδέοντι,
 ἢ θέμις ἐστίν, ἄναξ, ἀγορῇ· σὺν δὲ μὴ τι χολωθῆς.
 ἀλκὴν μὲν μοι πρῶτον ὀνειδίσας ἐν Δαναοῖσιν,
 φὰς ἔμειν ἀπτόλεμον καὶ ἀνάλκιδα· ταῦτα δὲ πάντα
 ἴσας’ Ἀργείων ἡμὲν νέοι ἡδὲ γέροντες.
 σοὶ δὲ διάνδιχα δῶκε Κρόνον παῖς ἀγκυλομήτεω·
 σκῆπτρῳ μὲν τοι δῶκε τετιμῆσθαι περὶ πάντων,
 ἀλκὴν δ’ οὔτοι δῶκεν, ὅ τε κράτος ἐστὶ μέγιστον.
 δαιμόνι, οὔτω πον μάλα ἔλπει νῆας Ἀχαιῶν
 ἀπτολέμοις τ’ ἔμεναι καὶ ἀνάλκιδας ὡς ἀγορεύεις;
 εἰ δὲ σοὶ αὐτῷ θυμὸς ἐπέσσινται ὥστε νέεσθαι,
 ἔρχεο· πάρ τοι ὁδὸς, νῆες δέ τοι ἄγχι θαλάσσης.
 ἀλλ’ ἄλλοι μενέουσι καρηκομόωντες Ἀχαιοὶ,
 εἰσόκε περ Τροίην διαπέρσομεν. εἰ δὲ καὶ αὐτοὶ,
 φευγόντων σὺν νηυσὶ φίλιν ἐς πατρίδα γαῖαν
 ῥῶϊ δ’, ἐγὼ Σθέnelός τε, μαχησόμεθ’, εἰσόκε τέκμων
 Ἴλιον εἴρωμεν· σὺν γὰρ θεῷ εἰλήλοισθμεν.”

SECOND PAPER—12 NOON TO 2 P.M.

I. SENTENCES.

1. The king asked the messenger whence he came and who had sent him.
2. I should not be surprised if your son should become a distinguished man. He is already a better speaker than many older men.
3. If you do not walk faster you will not arrive before they go to dinner.
4. Everyone was indignant at a man of his character using such language. Only those, they thought, who are themselves free from reproach have a right to be so hard on others if they make a mistake.
5. I do not think he would have betrayed the city to the enemy unless all his friends had been put to death or driven into exile by the party in power.
6. The Athenians are justly blamed for having put Socrates, the wisest of men, to death. Most of them, however, really believed that he was an atheist, and that their sons would be utterly corrupted if they associated with him.

II. GRAMMAR.

1. Give the future infinitive, aorist infinitive and perfect infinitive in all voices used of καθίστημι, ἀπαγορεύω, ἀφαιρῶ, ἐπαίρω, μεταλαμβάνω, διαφέρω, ἀποκτείνω, ἐμπίμπρημι, ἀναμινύσκω, παρατίθημι.

2. How do you express the passive of $\phi\acute{o}\nu\omicron\upsilon\upsilon\delta\iota\acute{o}\kappa\epsilon\iota\nu$, $\epsilon\tilde{\iota}\pi\omicron\iota\omega\ \tau\omicron\upsilon\varsigma\ \phi\acute{\iota}\lambda\omicron\upsilon\varsigma$, $\omicron\acute{\iota}\ \pi\omicron\lambda\lambda\omicron\iota\ \epsilon\tilde{\iota}\pi\ \lambda\acute{\epsilon}\gamma\omicron\iota\sigma\acute{\iota}\ \mu\epsilon$, $\tau\omicron\upsilon\varsigma\ \phi\upsilon\gamma\acute{\alpha}\delta\alpha\varsigma\ \kappa\alpha\tau\acute{\alpha}\gamma\omicron\iota\upsilon\sigma\iota\nu\ \omicron\acute{\iota}\ \pi\omicron\lambda\iota\tau\alpha\iota$.

3. Translate and explain the syntax of:—

(α) $\omicron\upsilon\delta\epsilon\iota\upsilon\delta\varsigma\ \delta\tau\omicron\iota\nu\ \omicron\tilde{\iota}\ \delta\epsilon\iota\nu\acute{o}\tau\epsilon\rho\acute{o}\varsigma\ \acute{\epsilon}\sigma\tau\iota\ \lambda\acute{\epsilon}\gamma\epsilon\iota\nu$.

(β) $\chi\rho\eta\tilde{\nu}\ \pi\rho\omega\acute{\alpha}\iota\tau\epsilon\rho\omicron\nu\ \acute{\alpha}\nu\alpha\sigma\tau\eta\tilde{\nu}\alpha\iota\ \tilde{\iota}\nu\ \epsilon\tilde{\iota}\delta\epsilon\varsigma\ \tau\omicron\delta\omicron\nu\ \eta\lambda\iota\omicron\nu\ \acute{\alpha}\nu\acute{\epsilon}\chi\omicron\iota\tau\alpha$.

(γ) $\omicron\tilde{\iota}\kappa\ \tilde{\alpha}\nu\ \tilde{\epsilon}\mu\eta\nu\ \pi\omicron\tau\acute{\epsilon}\ \omicron\tilde{\iota}\tau\omega\ \delta\epsilon\iota\nu\acute{o}\ \pi\alpha\theta\epsilon\tilde{\iota}\nu$.

(δ) $\omicron\tilde{\iota}\kappa\ \tilde{\alpha}\nu\ \epsilon\acute{\iota}\pi\omicron\iota\mu\iota\ \pi\lambda\acute{\epsilon}\omega$, $\pi\acute{o}\lambda\lambda\ \tilde{\alpha}\nu\ \acute{\epsilon}\chi\omega\nu\ \lambda\acute{\epsilon}\gamma\epsilon\iota\nu$.

(ϵ) $\epsilon\acute{\iota}\ \mu\grave{\eta}\ \kappa\alpha\theta\acute{\epsilon}\xi\epsilon\iota\varsigma\ \gamma\lambda\acute{\omega}\tau\tau\alpha\nu$, $\acute{\epsilon}\sigma\tau\alpha\iota\ \sigma\omicron\iota\ \kappa\alpha\kappa\acute{\alpha}$.

4. Give the Greek for: "Four times a month," "Come in the evening," "Do not tell any one," "He had just come," "Be sure to tell me."

5. Explain by examples the use of the particles $\kappa\alpha\iota$ $\mu\acute{\iota}\eta\nu$, $\delta\eta\pi\omicron\upsilon$, $\iota\tilde{\eta}\nu$, $\delta\eta$, $\kappa\alpha\acute{\iota}\tau\omicron\iota$, $\mu\acute{\epsilon}\nu\tau\omicron\iota$, $\tilde{\alpha}\rho\alpha$.

LOWER MATHEMATICS.

Monday, 3rd April, 1899—2 TO 5 P.M.

(Candidates may obtain FULL marks by doing about two-thirds of this paper. But the Examiners may reject a candidate who shows exceptional weakness in any of the sections A, B, C.)

A.

1. State and justify the rule for converting a vulgar into a decimal fraction. When does the decimal corresponding to a given vulgar fraction terminate?

Express $(2\frac{1}{2} - \frac{3}{2}) \div (1 - \frac{5}{6}) + (\frac{3}{16} - \frac{1}{4}) \times \frac{2}{3} \frac{8}{5}$ as a decimal, correct to the fourth place of decimals.

2. Find to the nearest penny the amount of the following bill:

6.63 tons of coal at £.76 per ton;

3.14 lbs. of tea at £.31 per lb.

3. A man invests £3856. 10s. 11d. in a certain company so as to get 3 per cent. of interest on his investment. Before paying the interest the company deducts income tax at 6d. per £. What is the man's net income from the investment?

4. If the cost of painting the walls and ceiling of a rectangular room, 13 ft. 6 in. long, 11 ft. 3 in. broad, and 12 ft. high, be £6, what will be the cost of painting in the same way a rectangular room 14 ft. long, 13 ft. broad, and 13 ft. high?

5. If 23 oz. of a 53.2 per cent. solution of a certain salt be mixed with 20 oz. of a 35.32 per cent. solution of the same salt, calculate to the second place of decimals the percentage of salt in the mixture.

B.

6. If m and n be positive integral numbers, prove from first principles that $(x^m)^n = x^{mn}$.

$$\text{Simplify} \quad \frac{(3^2 \cdot 2^3 x^2)^4 \times (27 x^3)^3 \times 6 x^2}{(8 x^4)^2 \times (27 x^3)^2 \times 3 x}.$$

7. Factorise the following :

$$(i.) (x+1)^2 - 8(x+1) + 15;$$

$$(ii.) (x-a)^2(x^2-bx-cx+bc) + (x-b)^2(x^2-cx-ax+ca) + (x-c)^2(x^2-ax-bx+ab).$$

8. Simplify the following rational functions of x :

$$(i.) \frac{3x^3 - 8x^2 + 4x + 1}{x^2 - 3x + 2} - \frac{2x^3 - 7x^2 + 5x + 2}{x^2 - 4x + 4};$$

$$(ii.) \left\{ \frac{x^2 - a^2}{x^2 - a^2} + \frac{x^3 + a^3}{(x+a)^2} \right\} \times \left\{ \frac{x-a}{2-2x} \right\} \div \left\{ x+a + \frac{3a^2}{x-a} \right\}.$$

9. Solve the following :

$$(i.) 6 \left\{ 1 - \frac{2x-1}{2x+1} \right\} = \frac{10x+7}{2x+1};$$

$$(ii.) \begin{cases} \left(1 - \frac{1}{x} \right) \left(1 - \frac{6}{y} \right) = 1, \\ \left(1 - \frac{1}{x+y} \right) \left(1 + \frac{2}{x-y} \right) = 1. \end{cases}$$

10. Express the sum and the product of the roots of the equation $x^2 + px + q = 0$ in terms of p and q .

Solve the following :

$$(i.) (3x-1)^2 = 4x^2 + 4x + 1;$$

$$(ii.) \begin{cases} x+2y-1=0, \\ (x+2y)^2 + (x-2y)^2 = 10. \end{cases}$$

11. $ABCD$ is a rectangle, and P and Q are points in AB at which CD subtends a right angle. If AB be 18 inches, and BC 8 inches, find the distance between P and Q .

C.

12. Prove that two triangles are congruent (*i.e.* equal in every respect) when three sides of the one are respectively equal to three sides of the other.

Show how to construct a triangle when two sides and the perpendicular from the vertex on the base are given. Has the problem more than one solution?

13. Show that the diagonals of a rhombus are perpendicular and bisect the angles of the figure.

When one side of a rhombus is given in magnitude and position, what is the locus of the intersection of its diagonals?

14. Show that the opposite angles of a quadrilateral inscribed in a circle (cyclic quadrilateral) are supplementary.

If a trapezium be cyclic, show that it is isosceles, and that its area is expressed in terms of its sides by the formula

$$\frac{1}{2}(b+c)\sqrt{\frac{1}{4}a^2 - \frac{1}{4}(b-c)^2},$$

b and c being the lengths of the parallel sides.

15. Show that four circles can in general be described so as to touch three given straight lines. Discuss the case where two of the lines are parallel.

If in a right-angled triangle the sides containing the right angle are 5 and 12 inches respectively, find the length of the radius of the inscribed circle.

16. Prove that parallelograms, and also triangles, on the same base and between the same parallels are equal in area.

L and M are two given parallel straight lines, and P and Q two given points. Show how to draw through P and Q respectively, a pair of parallels which form with L and M a parallelogram of given area. Under what circumstances is this problem impossible?

INTERMEDIATE AND HIGHER MATHEMATICS.

Thursday, 6th April, 1899.

FIRST PAPER—9 TO 11 A.M.

(Candidates may obtain full marks by doing correctly about two-thirds of this paper. But the Examiners may reject a candidate who shows exceptional weakness in any of the sections A, B, C.)

The pass mark for Intermediate Candidates is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the Intermediate Standard; but such candidates will receive credit for any question they may answer.)

A.

1. Three partners, A , B , C , put each £653 into a uniformly profitable business. After nine months A withdraws £300 of his capital, which is made good in equal shares by B and C . The total profit at the end of the year is £235; calculate to the nearest pound the shares of A , B , and C respectively in this profit.

2. State the Algebraic Law of Distribution for Multiplication and for Division.

(i.) Distribute and arrange

$$(-x+y+z)^2(x+y+z) + (x-y+z)^2(x+y+z) + (x+y-z)^2(x+y+z);$$

(ii.) Find the coefficient of x^4 in

$$(1+x+x^2+x^3+x^4)(1-x+x^2-x^3+x^4).$$

3. Prove that the remainder when $a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$ is divided by $x - \lambda$ is $a_n \lambda^n + a_{n-1} \lambda^{n-1} + \dots + a_1 \lambda + a_0$;

(i.) Factorise $101x^2 + 201x + 100$;

(ii.) Factorise $x^3 - (p+14)x^2 + (14p+48)x - 48p$.

4. Express the following as single rational fractions at lowest terms :

- (i.) $-\frac{1}{4(x-1)} + \frac{x^2+2x+1}{4(x^3+x^2+x+1)} + \frac{x+5}{2(x^2+1)^2}$;
 (ii.) $\frac{(b-c)(x-b-c)}{x^2-(a+b+c)x+a(b+c)} + \frac{(c-a)(x-c-a)}{x^2-(a+b+c)x+b(c+a)}$
 $+ \frac{(a-b)(x-a-b)}{x^2-(a+b+c)x+c(a+b)}$

5. Show that numerical quantities a, b, c can be found such that
 $x^2+1 = a(x^2+x+1) + (b.x+c)(x-1).$

6. Solve the following :

- (i.) $(b-c)x^2(x^2-a^2) + (c-a)x^2(x^2-b^2) + (a-b)x^2(x^2-c^2)$
 $= p^2(b-c)(c-a)(a-b)$;
 (ii.) $x+y+z=6, \quad 2x+3y+z=13, \quad x^2+y^2+z^2-xy=8.$

B.

7. Prove that the area of a trapezium is equal to the area of the rectangle contained by half the sum of the parallel sides and the distance between them.

If the sum of the perpendiculars from the vertices A and B of the triangle ABC on the opposite sides be equal to AB , show that the area of the triangle is $\frac{1}{2}abc/(a+b)$
 where a, b, c mean the lengths of BC, CA, AB respectively.

8. Prove that the sum of the squares on the sides of a triangle is double the sum of the squares on the median and on half the base.

$ABCD$ is a rhombus whose side is given, and O a point on the diagonal BD whose distance (OA or OC) from A or C is also given ; show that the rectangle $OB \cdot OD$ is constant, notwithstanding that the rhombus is not completely determined by these data.

9. Show how to construct the common tangent to two given circles.

To describe a chord of a given circle which shall have a given length, and shall touch a given circle.

10. Show that any straight line is cut by three given parallel planes in a given ratio.

O is a fixed point outside a fixed plane X ; P is any point in X , and Q divides OP in a given ratio. Find the locus of Q .

C.

11. Express $\sin A$ in terms of $\cos A$, $\tan A$, and $\sec A$.

Find all the values of x that satisfy the equation

$$\sin^2 x \sec^2 x + 1 = \sec^2 x.$$

12. Deduce from a geometrical figure the value of $\tan 15^\circ$.

13. Prove that the length of a chord of a given circle is proportional to the sine of either of the angles which it subtends at the circumference.

If D be the projection of the vertex A on the side BC of the triangle ABC , and E and F the projections of D on AC and AB respectively, show that

$$EF = 2R \sin A \sin B \sin C,$$

R being the radius of the circum-circle of ABC .

14. AB and ED are perpendicular to the horizontal line BD , and C is a point in BD . BC subtends angles α and β at A and E respectively, and γ is the angular depression below the horizontal of B as seen from E . Given also that $AB = h$, find a logarithmic formula for calculating DE in terms of α, β, γ, h .

SECOND PAPER—12 NOON TO 2 P.M.

(Candidates may obtain FULL marks by doing correctly about two-thirds of the questions in each section of this paper. But the Examiners may reject a candidate who shows exceptional weakness in any of the sections A, B, C.)

The pass mark for Intermediate Candidates is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the Intermediate Standard; but such candidates will receive credit for any question they may answer.)

A.

1. A clock which is set right at 12 noon indicates 5 minutes past 7 the same evening when the true time is 7 o'clock; what is the true time when the clock indicates 10 on the same evening?

2. If $x = a^2 - bc$, $y = b^2 - ca$, $z = c^2 - ab$, prove

$$(i.) ax + by + cz = (a + b + c)(x + y + z).$$

$$(ii.) \frac{x^2 - yz}{a} = \frac{y^2 - zx}{b} = \frac{z^2 - xy}{c}.$$

3. Solve the equations

$$(i.) \frac{1}{x+6} + \frac{2}{x-3} + \frac{3}{x+2} = \frac{6}{x+1},$$

$$(ii.) \frac{(x-a)(x-b)}{(x-ac)(x-bc)} = \frac{(x+a)(x+b)}{(x+ac)(x+bc)}.$$

4. Show that the two equations

$$x^2 + ax + b = 0 \text{ and } x^2 + bx + a = 0$$

will have a common root if either $a - b = 0$ or $a + b + 1 = 0$.

Show that if the roots of the equation

$$(a^2 + b^2)x^2 + 2(ac + bd)x + c^2 + d^2 = 0$$

be real, they will be equal, and find the equal roots.

5. A boy has a number of bags and a number of marbles; he puts one marble into each bag and has 48 marbles left; he divides the 48 marbles into as many equal groups as he has bags, and puts one of the groups into one of the bags; there are now altogether 19 marbles in the bags. How many marbles has he?

6. If $a : b = c : d = e : f$, show that each ratio is equal to

$$\sqrt[n]{(pa^n + qc^n + re^n)} : \sqrt[n]{(pb^n + qd^n + rf^n)}.$$

If a, b, c, d are in continued proportion, prove that

$$(pa + qb)(qc + rd) = (qb + rc)(pb + qr).$$

B.

7. Describe a square equal in area to a given rectilineal figure.

Show how to describe a rectangle equal in area to a given square, and having its perimeter three times that of the square.

8. If two chords of a circle intersect, show that the rectangle contained by the segments of the one is equal to the rectangle contained by the segments of the other.

A variable circle passes through two fixed points and intersects a fixed circle; show that the common chord of the variable circle and the fixed circle passes through a fixed point on the line joining the given points.

9. Inscribe a circle in a given regular pentagon.

Prove that the bisectors of all the angles of any regular polygon meet in a point.

10. If two triangles have one angle of the one equal to one angle of the other, and the sides about these angles proportional, they shall be similar.

Given an angle of a triangle in position and magnitude, and also the ratio of the sides containing it, find the locus of the centre of the circumscribing circle of the triangle.

C.

11. Give a construction for dividing an angle into two parts which shall have their sines in the given ratio of m to n .

12. If $\frac{\sin x}{\sin y} = \sqrt{2}$ and $\frac{\tan x}{\tan y} = \sqrt{3}$, find the value x and the corresponding value of y .

13. ABC is a triangle in a horizontal plane with a right angle at C , and M is the middle point of AB ; a flagstaff is set up at C , and it is found that its angles of vertical elevation at A , B , M are α , β , θ respectively. Show that

$$\tan^2 \theta = 2 \tan \alpha \tan \beta \sin 2A,$$

where A is the angle BAC .

14. Find the value of $\sqrt{\left(\frac{\sin 36^\circ 15'}{3 \tan 24^\circ 30'}\right)}$, given

$$\log \sin 36^\circ 15' = 9.7718150,$$

$$\log 3 = .4771213,$$

$$\log \tan 24^\circ 30' = 9.6587041,$$

$$\log 6.5765 = .8179948.$$

FRENCH.

Tuesday, 4th April, 1899.

FIRST PAPER—3 TO 4.30 P.M.

Translate into French:—

(a) But the fate of Europe was changed by the genius of Marlborough. Concealing his plans from all but Godolphin and his wife, he induced the Dutch to let their forces accompany him for a campaign, as they thought on the Moselle; then boldly leaving the French garrisons in his rear, he made a forced march to the Danube, destroyed a Bavarian army in a severe battle at Donauwerth, and joined the emperor's general, Prince Eugene of Savoy. On 13th August, 1704, they fell upon the French and Bavarians at the village of Blenheim, on the left bank of the Danube, and overthrew them utterly. This was one of the decisive battles of the world; it prevented the destruction of

the Austrian power, the probable invasion of England, and the possible restoration of James II., and it set a limit, once for all, to French supremacy on the Continent until the time of Napoleon.

- (b) 1. He was always thinking of it and speaking of it.
 2. I was afraid that he would not arrive in time.
 3. Whatever he undertakes, he does thoroughly well.
 4. You should not have repeated what was told you in confidence.
 5. Have you succeeded in getting what you wanted?

Thursday, 6th April, 1899.

SECOND PAPER—3 TO 5 P.M.

I. Translate into English:—

(a) L'Espagne renonce au travail considéré comme œuvre servile ; son idéal est la vie oisive du seigneur et du prêtre. L'industrie est méprisée ; le commerce jeté comme un os à ronger aux Juifs convertis et aux étrangers ; l'agriculture est anéantie par la double main morte du clergé et de la Grandesse. Le pauvre mendie fièrement ; le riche vit à la mode arabe, d'un trésor qui croupit dans un coffre ou dans un silo. Au rude labeur de la charrue les paysans préfèrent la fainéantise pastorale. Le chevrier ne croit pas déroger en gardant ses bêtes : immobile, drapé dans sa loque il est l'*hidalgó* de la Sierra, le gentil-homme de la solitude.—C'est pourquoi la vaine pâture enhavite et sèche la campagne : on se croirait en Chaldée aux temps des Patriarches. L'Estramadure tout entière est livrée aux mérinos ; les pâtres du marquis de Gebraleon gouvernent à eux seuls un troupeau de huit cent mille moutons.

(b)

LA MISÈRE.

Mon dos n'est point courbé par ma lourde misère ;
 Tranquille et souriant, je cours au lendemain,
 Sous mes pieds dédaigneux soulevant la poussière
 Et fêtant nuit et jour l'insomnie et la faim.
 Je regarde passer sans regret ni colère
 Les heures sans amour et les heures sans pain ;
 Je marche le front haut dans ma pauvreté fière,
 Bereant mes maux cuisants par un rêve divin.
 Je me ris de la mort et je siffle la vie ;
 Et lorsque le hasard, ce dieu lâche et moqueur,
 Par des malheurs nouveaux veut m'entamer le cœur,
 L'espérance descend dans mon âme ravie ;
 Et, l'œil au ciel, j'attends, muet, quoique blessé,
 J'attends le jour tardif qui venge le passé.

II. GRAMMAR.

1. Form short sentences to illustrate the difference between *celui*, *celui*, *quelque* (adjective), *quelque* (adverb).

2. Translate the following sentences into English:—

Il vint me parler.
 Il vint pour me parler.
 Il venait de me parler.
 Il en vint à me parler.

3. Translate the following sentences into English, and explain in each case the use of the respective mood: (a) *J'entends que vous le punissiez*; (b) *j'entends que vous le punissiez*; (c) *vous verrez qu'il fera son devoir*; (d) *vous verrez à ce qu'il fasse son devoir*.

4. Translate into French: (a) he is right; (b) the right answer; (c) his right hand; (d) come with us! all right!

5. Compose four short sentences, beginning with: *à moins que*; *quelle que*; *quoique*; *quoi que*. Give also the English translation of your sentences.

III. PHILOLOGY AND LITERATURE.

(Only ONE question to be attempted.)

1. Explain etymologically the meaning of any ten of the following words: *affront*, *emportement*, *gêne*, *ennui*, *partir*, *charme*, *nonchalant*, *malheureux*, *lâche*, *entêté*, *étonné*, *vilain*, *boucher*, *chez*, *lunette*.

2. Say what has become in French (a) of the Latin neuter gender; (b) of the Latin perfect and pluperfect tenses.

3. The literary importance of Corneille's *Le Cid*. Briefly describe the contents.

4. Describe the character of two of the principal personages of any one of Molière's plays you may have read.

GERMAN.

Wednesday, 5th April, 1899.

FIRST PAPER—3 TO 4.30 P.M.

(Candidates may use either German or English script.)

Translate into German:—

(a) "But yet," the Admiral de Vienne said. "if you do not fight, what do you mean to do? If you do not oppose this great force, the English will destroy your country."

"Let them do their worst," said Douglas, smiling; "they will find but little to destroy. Our people are all retired into woods and hills, and have driven off their cattle, which is their only property, along with them. The English will find nothing either to take away or to eat. The houses of the gentlemen are small towers, with thick walls, which even fire will not destroy; as for the common people, they dwell in mere huts, and if the English choose to burn them, a few trees from the wood is all that is necessary to build them up again."

"But what will you do with your army if you do not fight?" said the Frenchman; "and how will your people endure the distress, and and famine, and plunder, which must be the consequence of the invasion?"

"You shall soon see that our army will not be idle," said Douglas.

(b) (1) Come here, when you are called!

(2) Do you know where he is going?

(3) I wish he had not gone away so soon.

(4) At all events let us hope for the best.

(5) I believe you could have chosen something better.

Friday, 7th April, 1899.

SECOND PAPER—9 TO 11 A.M.

I. Translate into English :—

(a) Indessen waren wir in den Hintergrund der Grotte gekommen, und das Schauspiel, welches sich nun unseren Augen bot, war ganz neu und von unbeschreiblicher Anmut. Die Grotte war nämlich, da die Abendsonne an den Eingang schien, weit mehr erhellt als an jenem Morgen, und ihre vielzackige Wölbung zeigte sich in voller Farbenpracht, wo sie heller war, leicht gespiegelt von dem himmelflaren Wasser. Ich ließ die Ruder einziehen; da ruhte das liebliche Element beinahe völlig, und man hätte es für den blauen Himmel selbst ansehen können, wären nicht bald hier bald da silberne Tropfen von der Decke herabgefallen, die es mit einem ammutigen Spiele von wallenden Ringen schmückten. Zu dieses melodische Geträufel stöhnte dann und wann, wie eine atmende Menschenbrust, die leise Brandung, erst außerhalb, dann innerhalb der Grotte. Ich sah nun auch Scharen von kleinen Fischen, die, obwohl sie sonst bunt wie Kolibris erscheinen, hier wie schwarze Schwalben in dem Himmel unter mir herumflogen.

Nachtlied.

- (b) Auf Berg und Thal liegt stumm die Nacht,
 Und lautlos schweiget die Kunde,
 Tief unten im Dorf nur lacht, ganz lacht
 Betten verjchlafen die Hunde.
 Es ziehen die Wolken, es rauscht der Wald,
 Und murrend leise, leise
 Singt tief der Bach im Felsenpalt
 Die traumhaft alte Weise.
 Zu Füßen hallt es wie Sphärengejang,
 Es leuchtet im Waldesgrunde,
 Die Kirchturmmuhr mit dröhnendem Klang
 Ründet die Geisterstunde.
 Ein Hauchen und Flüstern überall,
 Mich treibt es zu lauschen, zu lauschen,
 Mir ist's als hört ich vernehmbar im All
 Die Ströme des Lebens rauschen.

II. GRAMMAR.

1. Give the German verbs and prepositions for the English: *believe in, laugh at, wait for, think of, aim at*. Form one short sentence with each of these expressions.

2. Form short sentences beginning with the following words, and add the English translation of these sentences: *vergeben, übrigens, obschon, kaum, unterdessen*.

3. What different parts of the verb may be used to express command? Illustrate with the verb *aufstehen*.

4. Write the third person singular of the present indicative and the past participle of: *sich versehen, bemitleiden, vorziehen, antragen, unterlassen*.

III. PHILOLOGY AND LITERATURE.

Only ONE question to be attempted.

1. Explain philologically: (a) the suffix in *viertel*; (b) the forms *er will, er darf* (without the inflective *t*); (c) the uninflected forms of the possessive adjectives, masc. and neut.

2. Give the English meaning of: *ersetzen, besetzen, versetzen, zersetzen, übersetzen* (two meanings), *bereisen, verreisen* (two meanings), *trinken, trünken, verschlafen*.

3. The national sentiment in the works of Klopstock, Lessing, Voss.

4. Name the authors of and write a short literary note on the following works: *Die Stimmen der Völker; das Lied vom braven Manne; Oberon*.

DYNAMICS.

Friday, 7th April, 1899—1 TO 4 P.M.

(Candidates may obtain full marks by doing about two-thirds of this paper.)

1. Define the relative velocity of two moving points, and give a geometrical construction for determining the relative velocity when the absolute velocity of each of the two points is known.

A man, 6 feet high, is walking at the rate of 4 miles an hour directly away from a lamp-post 10 feet high. Find the speed of the end of his shadow, and the rate at which the length of the shadow increases.

2. Define acceleration. A point moves in a straight line, starting with velocity u and moving with constant acceleration f in its direction of motion: if v be its velocity at the end of time t , when it has moved through a distance s , prove that

$$(i.) v = u + ft, \quad (ii.) s = ut + \frac{1}{2}ft^2.$$

A point moving in a straight line passes over 7 feet in the first second of its motion, and over 11 and 17 feet in the third and sixth seconds respectively. Show that the motion is consistent with the supposition of a uniformly accelerated velocity.

3. When a force acts on a particle which is free to move, state the relation between the mass of the particle, the acceleration, and the force.

What uniform force acting on a mass of 1 cwt. at rest will make it describe 10 feet in the first second? What speed would this force produce in a mass of 1 ton if acting for 3 seconds?

4. State and illustrate Newton's Third Law of Motion.

Masses of 2 and 6 lb. are connected by a string 24 feet long; at the beginning of their motion the mass of 6 lb. rests 12 feet from the edge of a smooth horizontal platform, and the mass of 2 lb. hangs over the edge and is 4 feet above the ground. Find the acceleration of the masses; find also when the mass of 6 lb. will strike the ground.

5. Define a foot-pound of work and a horse-power.

Mention a case in which a force acting on a body does no work.

The mass of a complete train is 80 tons and the resistance to its motion on a level of 20 lb. weight per ton. If the highest horse-power of the locomotive be 128, what is the greatest speed at which the locomotive can keep the train moving?

6. Show that if any number of forces acting on a particle in the same plane are in equilibrium, the sum of their components in any direction is zero. Hence establish two necessary and sufficient conditions for the equilibrium of any number of forces acting on a particle in the same plane.

Forces of 10, 12, and 14 lbs. respectively act at a point in directions parallel to the sides of an equilateral triangle taken in order: find their resultant in magnitude and direction.

7. Define the centre of a system of parallel forces and state a rule for finding it.

Masses of 1, 2, 3, 4 lb. are placed at the corners A, B, C, D respectively of a square $ABCD$: find the distance of the centre of gravity of the four masses from the sides AB, AD . Find also where a mass of 5 lb. must be placed so that the centre of gravity of the five masses may be at A .

8. Investigate the mechanical advantage of the system of pulleys in which the same rope goes round all the pulleys, the pulleys being smooth and the weight of the lower block being neglected.

If there are 3 pulleys in the lower block, what pull is necessary to just raise a weight of 1 ton? Find also the power exerted when the rope is pulled out at a speed of 10 feet per second.

9. A body rests on a rough plane inclined at an angle i to the horizon; if μ be the coefficient of friction, and if the body be on the point of slipping, show that $\mu = \tan i$.

A uniform ladder, 10 feet long, rests with one end against a smooth vertical wall and the other on the ground, the coefficient of friction between the ladder and the ground being $\frac{1}{2}$. Find how far up the ladder a man whose weight is four times that of the ladder may ascend before it begins to slip, the foot of the ladder being 6 feet from the wall.

10. Define pressure at a point of a fluid and show that the difference of pressures at two points in a heavy liquid is proportional to the difference of the depths of the two points.

Show that the common surface of two liquids of different densities which do not mix and which are at rest under gravity is a horizontal plane.

11. Define the centre of pressure of a plane area immersed in a liquid. State the position of the centre of pressure of a rectangle with one side in the surface of a liquid.

A cube of 1 foot edge is filled with water; one side $ABCD$ can move freely about the lower edge CD as a hinge. What force must be applied at the middle point of the diagonal AC at right angles to the side $ABCD$ to keep this side in position?

12. What is the relation between the pressure and the density of a given mass of gas at constant temperature?

A hollow cylinder is full of air at a pressure of 15 lb. per square inch when the piston is 12 inches from the bottom; if more air is forced in till there is three times as much air as at first, and if the piston is allowed to rise 4 inches what will be the pressure of the air, the temperature remaining constant?

13. Describe the common suction pump and explain its action.

One foot of the length of the barrel of the pump holds a gallon of water (10 lb.); at each stroke the piston works through 4 inches; the spout is 24 feet above the surface of the water in the well: how many foot-pounds of work are done per stroke?

HEBREW.

FIRST PAPER—Two Hours.

1. Point and translate :

יוסף ישראל וכל־אשר־לו יבא בארה שבע ויזבח
 זבחים לאלהי אביו יצחק: ויאמר אלהים לישראל
 במראת חלום ויאמר יעקב ויאמר הנני: ויאמר
 אנכי האל אלהי אביך אל־תירא מרדה מצרימה כי־
 לגוי גדול אשימך שם: אנכי אהר עמך מצרימה ואנכי
 אעלה גס־עלה ויוסף ישית ידו על־ענין: ויוסף יעקב
 מבאר שבע וישאו בני־ישראל את־יעקב אביהם ואת־
 טפם ואת־נשיהם בעגלות אשר־שלח פרעה לשאת
 אתו:

2. Translate into Hebrew with the vowel-points :

And Joseph became greater than all his brethren, and they came

down to the land of Egypt, and prostrated themselves before him to the ground. And his brethren came near and said, We remember what we did to thee in our native land. Take not, pray, vengeance for our sins, for we have sinned against thee, and evil has been found in our hands. And Joseph said to them, Go in peace, for the Lord sent me to Egypt for good; for all His works are in truth and mercy. And it came to pass after these things that Jacob died and his sons arose and took him up and buried him in the land of Canaan as he had commanded them, and they mourned for him many days.

SECOND PAPER—TWO HOURS.

1. Translate Genesis xliii. 1-11.

2. Parse **הַבִּיאוּ** and **נָשַׁבַּר** (in v. 2), **הֵקֵד הֵקֵד** (in v. 3), **נָרְדָּה** and **נִשְׁבְּרָה** (in v. 4), **תָּרַח** (in v. 5), **הִרְעַתָּם** and **כִּהְגִּיד** (in v. 6), **נָדַע** and **הִרְרִידוּ** (in v. 7), **נָמִוּת** (in v. 8), **הַצַּגְתִּיר** (in v. 9), and **קָחַר** (in v. 11).

3. Write with suffixes (a) **מִשְׁפָּט**, (b) **אֵל** (preposition), (c) the 3rd pers. sing. and plur. of the perf. and imperf. Qal, of **שָׁפַט**.

SPANISH.

Monday, 3rd April, 1899.

FIRST PAPER—9 TO 10.30 A.M.

1. Translate into Spanish:—

The downfall of Napoleon is an impressive lesson to ambition, and affords a striking illustration of the inevitable tendency of that passion to bring to ruin the power and the greatness which it seeks so madly to increase. No human being, perhaps, ever stood on so proud a pinnacle of worldly grandeur as Napoleon at the beginning of his Russian campaign. He had done more, he had acquired more, and he possessed more, as to actual power, influence, and authority, than any individual that ever figured on the scene of European Story. He had visited, with a victorious army, almost every capital of the Continent, and dictated the terms of peace to their astonished princes. He had consolidated under his immediate dominion a territory and population apparently sufficient to meet the combination of all that it did not include, and interwoven himself with the government of almost all that was left. He had cast down and erected thrones at his pleasure, and surrounded himself with tributary kings and principalities of his own creation. He had connected himself by marriage with the proudest of the ancient sovereigns, and was at the head of the largest and the finest army that was ever assembled to desolate or dispose of the world. Had he known where to stop in his aggressions upon the peace and independence of mankind, it seems as if this terrific sovereignty might have been permanently established in his person.

2. Translate into Spanish:—

1. The climate of England is more variable than that of Spain: the

summer days in the former are much longer and those of winter much shorter.

2. The more difficult the work, the greater the credit for having accomplished it.

3. In the year one thousand six hundred and eighty-seven, the sea retired from the shores of Peru, returning in tremendous waves that destroyed everything on the coast.

4. In one thousand seven hundred and eighty-six the same phenomenon occurred again, when out of four thousand souls that the said city contained only two hundred were saved.

5. I brought the letter and gave it to her.

6. If they should be there, tell them that I shall be at home the whole day.

7. He is very tractable, and is satisfied with his situation.

8. Although he might read much he would learn little.

9. It is not we but they who must yield.

10. I have just heard of his arrival.

11. I took for granted that he would not come.

12. If he should invite me to dine with him, I shall consider myself obliged to go.

Monday, 5th April, 1899.

SECOND PAPER—9 TO 11 A.M.

(Two hours allowed.)

I.

1. How is the plural of Spanish nouns formed?

2. When must the masculine article be used with feminine nouns?

3. Give the plural of the following:—*La cruz, el miércoles, el sí, el alma, cualquiera.*

4. Give the conjunctive personal pronouns and state when they should precede and when follow the verb by which they are governed.

5. What is the difference between *ser* and *estar*? Illustrate by a few examples.

6. Give the feminine form of:—*Paulino, caballo, curnero, poeta, conde.*

7. Give the negative form of:—*Fiel, dichoso, racional, noble.*

8. Give the superlative absolute of:—*Acre, bueno, grande.*

9. Give participle past of:—*Hacer, poner, ver, morir.*

II. EL SAUCE Y EL CIPRÉS.

Translate into English:—

Quando á las puertas de la noche umbría,
Dejando el prado y la floresta amena,
La tarde melancólica y serena
Su misterioso manto recogia,
Un macilente sauce se mecía

Por dar alivio á su constante pena,
 Y en voz suave y de suspiros llena
 Al son del viento murmurar se oía;
 ¡ Triste nací! ... mas en el mundo moran,
 Séres felices que el penoso duelo,
 Y el llanto oculto, y la tristeza ignoran!
 Dijo y sus ramas esparció en el suelo.
 Dichosos, ay, los que en la tierra lloran.
 Contestóle un ciprés mirando al cielo.

III. Translate into English:—

Las vidas de los hombres célebres son de todos los géneros de historia elmas agradable de leerse. La curiosidad, excitada por el ruido que aquellos personajes han hecho, quiere ver mas de cerca y contemplar mas despacio á los que con sus talentos, virtudes ó vicios extraordinarios han contribuido á la formacion, progreso y atraso de las naciones. Las particularidades y pormenores en que á veces es preciso entrar para pintar fielmente los caracteres y las costumbres, llaman tanto mas la atencion, cuanto en ellas se mira á los héroes mas desnudos del aparato teatral con que se presentan en la escena del mundo, y convertirse en hombres semejantes á los otros por sus flaquezas y sus errores, como para consolarlos de su superioridad.

II. FOR THE DEGREE OF M.A.

I. FOR ORDINARY DEGREE.

A. DEPARTMENT OF LANGUAGE AND LITERATURE.

LATIN TRANSLATION—Two Hours.

1. Translate the following passages:—

- (a) Virg. *Aen.* viii. 407—419.
- (b) Hor. *C.* iv. 6. 13—24.
- (c) *Either* Hor. *Sat.* i. 6. 24—37.
Or Hor. *Art. Poet.* 231—243.
- (d) Tac. *Ann.* ii. 23.
- (e) *Either* Cic. *De Off.* ii. ch. xxv. §89.
Or Cic. *Terr.* iv. ch. xxii. §49.

2. Translate with notes:—

- (a) Herculea bicolor cum populus umbra
 Velavitque comas folisque innexa pependit,
 Et sacer implevit dextram scyphus. Ocius omnes
 In mensam laeti libant divosque precantur.
- (b) Purae rivus aquae silvaeque iugerum
 Paucorum et segetis certa fides meae
 Fulgentem imperio fertilis Africae
 Fallit sorte beatior.

Either (1)

- (c) Ne scutica dignum horribili sectere flagello.
 Nam ut ferula caedas meritum maiora subire
 Verbera non vereor, cum dicas esse pares res
 Furta latrociniiis, et magnis parva miniris
 Falce recisurum simili te, si tibi regnum
 Permittant homines.

Or (2)

Nil moror officium quod me gravat, ac neque ficto
 In peius voltu proponi cereus nsquam,
 Nec prave factis decorari versibus opto,
 Ne rubeam pingui donatus munere, et una
 Cum scriptore meo, capsula porrectus aperta,
 Deferar in vicum vendentem thus et odores
 Et piper et quicquid chartis amicitur ineptis.

(d) Ea Germanico haud minus ira quam per metum accepta. Si
 limen obsideretur, si effundendus spiritus sub oculis inimicorum foret,
 quid deinde miserrimae coniugi, quid infantibus liberis eventurum?

Who were the *liberi*?

Either (1)

(e) Hæc non turpe est dubitare philosophos, quæ ne rustici quidem
 dubitent? a quibus natum est id, quod iam contritum est vetustate,
 proverbium: cum enim fidem alienius bonitatemque laudant, dignum
 esse dicunt, quicum in tenebris mices.

Or (2)

Cum hæc ad istum adferrentur, pertinuit aliquando et commotus
 est; vertit stilum in tabulis suis: quo facto causam omnem evertit
 suam; nihil enim sibi reliqui fecit quod defendi aliqua ratione posset.

LATIN PROSE—TWO HOURS.

Translate into Latin:—

During the reign of the Emperor Tiberius a certain worker in metals (*faber*) appeared at the palace and showed a beautiful cup made of a brilliant white metal that shone like silver. When the artificer was presenting it to the Emperor he purposely dropped it on the floor of the chamber. The goblet was so bruised by the fall that it seemed to be irretrievably injured; but the workman took his hammer, and in the presence of the Court repaired the damage without delay. It was evident that this metal was not silver, though it had almost the same brilliancy, besides being much more ductile and considerably lighter. The Emperor questioned the artificer closely, and learned from him that he had extracted the metal from a kind of clay. Tiberius then asked if any one besides himself knew the process, and received from the artificer the proud reply that the secret was known only to himself and Jupiter. This answer was sufficient. The Emperor had reflected that if it were possible to obtain this metal from so common a substance

as clay the value of gold and silver would be greatly reduced, so he determined to avert such a lamentable catastrophe. He caused the workshops of the discoverer to be wholly destroyed, while the luckless artificer was seized and decapitated, so that his secret might perish with him.

LATIN GENERAL PAPER—Two Hours.

A. UNPREPARED TRANSLATION.

Aeneas nubem belli, dum detonet omnis,
sustinet et Lausum increpitat Lausoque minatur :
'Quo moriture ruis maioraque viribus audes?
fallit te incautum pietas tua.' Nec minus ille
exsultat demens ; saevae iamque altius irae
Dardanio surgunt ductori, extremaque Lauso
Parcae fila legunt : validum namque exigit ensem
per medium Aeneas iuvenem totumque recondit.
Transiit et parmam mucro, levius arma minacis,
et tunicam, molli mater quam neverat auro,
implevitque sinum sanguis ; tum vita per auras
concessit maesta ad manes corpusque relinquit.

B. GRAMMAR.

1. Give the principal parts of the verbs from which come—*concussit*, *desecto*, *discernunt*, *dividit*, *factum*, *fixum*, *inustum*, *pepigi*, *praecisis*, *retusum*.

2. Give the meanings of the following words according to the quantities of the syllables :—*canes*, *fures*, *labor*, *meto*, *miseris*, *nitens*, *oblitus*, *securis*, *serum*, *severis*.

3. Write notes on grammatical points involved in :—

(a) At tu dictis, Albane, maneres.

(b) Et voltus nimium lubricus adspici.

(c) Cuncta venerantium officia ad Augustum verterat partemque prolis firmandae amicitiae miserat.

C. ANTIQUITIES AND HISTORY.

1. Write a note on *Adoptio* in Rome and change of name consequent thereon.

2. Give an account of the Roman method of dating according to the Julian calendar, and express in Latin—2nd of March, 12th of April, 6th of May, 24th of September.

3. Give the dates and the provisions of the Leges *Plotia-Papiria*, *Livia*, *Gabinia*, *Manilia*.

4. Write historical notes on the following :—

(a) Totumque instructo Marte videres
Fervere Leucaten.

(b) Iam bis Monaeses et Pacori manus
Non auspicatos contudit impetus.

(c) Quid debeas, O Roma, Neronibus
Testis Metaurum flumen.

GREEK TRANSLATION—Two Hours.

1. Translate *one* passage from each of the following sections, A, B, C:—

A. (a) Hom. *Il.* IX. 603—613.

(b) Hom. *Od.* XI. 582—592.

B. (a) Aristoph. *Equit.* 319—332.

C. (a) Herod. VI. 91.

(b) Dem. *Phil.* 141. 1. 2.

2. Translate:—

Δῆλον δὲ τὸ μέγεθος τῶν κακῶν τῶν γειομένων ἐκείνοις· οὐ γὰρ ἂν ποθ' οἱ λόγοι περὶ αὐτῶν τοσοῦτον χρόνον διέμειναν, εἰ μὴ καὶ τὰ πραχθέντα πολὺ τῶν ἄλλων διήνεγκεν. λέγεται δ' οἷν περὶ μὲν Ἀμαζόνων ὡς τῶν μὲν ἐλθουσῶν οὐδεμία πύλιν ἀπῆλθεν, αἱ δ' ἵπολειφθεῖσαι διὰ τὴν ἐνθάδε συμφορὰν ἐκ τῆς ἀρχῆς ἐξεβλήθησαν, περὶ δὲ Θρακῶν ὅτι τὸν ἄλλον χρόνον ὄμοροι προσοικοῦντες ἡμῖν διὰ τὴν τότε γεγενημένην στρατείαν τοσοῦτον διέλιπον, ὥστ' ἐν τῷ μεταξὺ τῆς χώρας ἔθνη πολλὰ καὶ γένη παντοδαπὰ καὶ πόλεις μεγάλας κατοικισθῆναι.—Isocrates, *Panegyricus*.

3. Translate *four* of the following, with notes fully explaining the allusions; (in the Homer passages) parse the verbal form δέγμενος in (a), or ἀπηγήρα in (b).

(a) Τῇ ὅγε θυμὸν ἔτερπεν, αἶειδε δ' ἄρα κλέα ἀνδρῶν.

Πάτροκλος δέ οἱ οἶος ἐναντίος ἦστο σιωπῇ,

δέγμενος Δίακίδην, ὅποτε λήξειεν αἰείδων.—Hom. *Il.*

(b) Ἀλλά με σός τε πόθος σά τε μήθεα, φαίδιμ' Ὀδυσσεῦ,

σὴ τ' ἀγανοφροσύνη μελιγδέα θυμὸν ἀπηγήρα.—Hom. *Od.*

(c) Μιαιρώτατος, ὃ Δημακίδιον, καὶ πλείστα πανοῦργα δεδρακώς,

ὁπότεν χασμᾶ, καὶ τοὺς κανλοὺς

τῶν εὐθυνῶν ἐκκαυλίζων

καταβροχθίζει, κάμφοῖν χειροῖν

μιστιλάται τῶν δημοσίων.—Aristoph. *Equit.*

(d) Ὡς φεύγων τε κατελαμβάνετο ὑπὸ ἀνδρὸς Πέρσῃω καὶ ὡς καταιρέομενος ὑπ' αὐτοῦ ἐμελλε συγκεντηθήσεσθαι, Περσίδα γλῶσσαν μετεῖς καταμηνύει ἐωντὸν ὡς εἴη Ἰστιαῖος ὁ Μιλήσιος.

Herod.

(e) Τοιγαροῦν ἅμα ἀκηκόαμέν τι καὶ τριηράρχους καθίσταμεν καὶ τούτοις ἀντιδόσεις ποιούμεθα καὶ περὶ χρημάτων πόρον σκοποῦμεν, καὶ μετὰ ταῦτα ἐμβαίνειν τοὺς μετοίκους ἔδοξε καὶ τοὺς χωρὶς οἰκοῦντας, εἴτ' αὐτοὺς πάλιν, εἴτ' ἀντεμβιβάζειν.—Dem. *Phil.*

(f) Διὸ δὴ καὶ κατηγοροῦσί τινες ἡμῶν ὡς οὐκ ὀρθῶς βουλευομένων, ὅτι τοὺς ἀσθενεστέρους εἰθίσμεθα θεραπείνειν, ὥσπερ οὐ μετὰ τῶν ἐπαινεῖν βουλομένων ἡμᾶς τοὺς λόγους ὄντας τοὺς τοιούτους.—Isocr. *Panegyricus*.

GREEK PROSE AND GRAMMAR—TWO HOURS.

A.

Translate into Greek :—

And now let us take a general view of the exploits of our ancestors and of ourselves, so that by comparing them we may learn to be better than we have hitherto been. Five and forty years did they rule Greece with general consent; more than ten thousand talents did they collect into our treasury; many and noble monuments did they erect of victories by sea and land. Be assured that they erected these, not to be viewed in silent wonder, but to excite you to emulate the achievements of those who raised them.

B.

1. Parse fully—κατορθωθή, κομοίμεθα, προσετώτας, σπείσον, ὑποθέμενος.

2. Illustrate by sentences, quoted or constructed, the constructions used with—ἀπαρνέσθαι, βοηθεῖν, ἔχουσιν, ἐπιτιμᾶν, κατηγορεῖν.

3. Translate the following, commenting on idiom and grammatical construction :—

(a) A. Μὰ Δί', ἀλλ' ἄκρατον οἶνον ἀγαθοῦ δαίμονος.

B. ἰδοὺ γ' ἄκρατον.

(b) Δερῶ σε θίλακον κλοπῆς.

(c) Εἰ δὲ ταῦτα μὲν οὐ ποιήσουσι, οἱ δὲ πάντως διὰ μάχης ἐλεύσονται, τάδε ἦδη σφί λέγετε ἐπηρᾶζοντες.

(d) Συνελόντι δ' ἀπλῶς, ἂν ἰμῶν αὐτῶν ἐβελήσγητε γενέσθαι καὶ παύσησθε αὐτὸς μὲν οὐδὲν ἑκαστος ποιήσειν ἐλπίζων, τὸν δὲ πλῆσιον πάνθ' ὑπὲρ αὐτοῦ πράξειν, τότε τὰ κατερραθυμμένα πάλιν ἀναλῆψθε.

GREEK GENERAL PAPER—TWO HOURS.

A. UNPRESCRIBED TRANSLATION.

ΣΤΡ.

Κάτεπέ νιν,

πότερα νομίζεις καινὸν αἰεὶ τὸν Δία

ῥεῖν ὕδωρ ἐκάστω, ἢ τὸν ἥλιον

ἔλκειν κάτωθεν ταῦτ' οὐδ' ὕδωρ πάλιν;

ΑΜ. οὐκ οἶδ' ἔγωγ' ὁπότερον, οὐδέ μοι μέλει.

ΣΤΡ. πῶς οἶν ἀπολαβεῖν τὰργύριον δίκαιος εἶ,

εἰ μηδὲν οἶσθα τῶν μετεώρων πραγμάτων;

ΑΜ. ἀλλ' εἰ σπανίζεις, τὰργύριον μοι τὸν τόκον

ἀπόδοτε. ΣΤΡ. τοῦτο δ' ἔσθ' ὁ τόκος τί θηρίον;

ΑΜ. τί δ' ἄλλο γ' ἢ κατὰ μῆνα καὶ καθ' ἡμέραν

πλέον πλέον τὰργύριον αἰεὶ γίγνεται,

ἰπορρέοντος τοῦ χρόνου; ΣΤΡ. καλῶς λέγεις.
 τί δῆτα; τὴν θάλατταν ἔσθ' ὅτι πλείονα
 νυνὶ νομίζεις ἢ πρὸ τοῦ; ΑΜ. μὰ Δί', ἀλλ' ἔστιν.
 οὐ γὰρ δίκαιον πλείον' εἶναι. ΣΤΡ. κἄτα πῶς
 αὕτη μέν, ὦ κακόδαιμον, οὐδὲν γίγνεται
 ἐπιρρεόντων τῶν ποταμῶν πλείων, σὺ δὲ
 ζητεῖς ποιῆσαι τὰργύριον πλείον τὸ σόν;

B. HISTORY, LITERATURE, AND ANTIQUITIES.

1. How does Dr. Adolf Holm illustrate from modern history the position of the combatants towards each other at the beginning (*a*) of the Persian (*b*) of the Peloponnesian war?
2. Discuss the life and policy of Cimon and of Cleon.
3. 'Herodotus is less educated, less civilized, less high-minded, less far-seeing than Isocrates; but he is an incomparably greater man.' Discuss this judgment.
4. Give some account of Simonides and Cratinus; also of the Parthenon, the Propylaea, and the Erechtheum.

ENGLISH LANGUAGE AND LITERATURE.

THREE HOURS.

I. FOR STUDENTS OF SESSION 1897-98.

(Answer NINE questions, taking ONE from A, ONE from B, FOUR from C, TWO from D, and ONE from E. Question 17 must be taken.)

Students who attended the English Class before Session 1893-94 may substitute for the question from B a question from any other section, noting on the outside of their papers the year of their attendance).

A. COMPOSITION.

1. What are the defects of style to which preachers and journalists are respectively most prone?
2. 'In the end the one virtue of style is clearness. Inaccuracy is bad because it interferes with clearness; ornament is justifiable only when it makes the writer's meaning more clear.' Discuss.
3. What is a mixed metaphor? Are mixed metaphors ever justifiable? What is irony? How is it related to hyperbole?

B. PHILOLOGY.

4. What is meant by 'Original Aryan'? Show how English has come to differ from it (*a*) as regards accent, or (*b*) through certain consonant-shiftings.
5. In what sense can the English of Chaucer's time be called a mixed language? How had it come to be mixed?
6. Identify the dialect of the following lines, giving your reasons.

What were the limits of this dialect in the fourteenth century? Trace its subsequent history till 1500.

And an alde man to dede drawand
 May noight wake, bot es ay slepand;
 Men says, al thir takens sere
 Er of a man that the dede is nere.
 ('dede' = 'death'; 'thir takens sere' = 'these several tokens.')

C. ELIZABETHAN DRAMA.

7. 'Marlowe's innovation was the introduction of an entirely new motive—the representation of life for its own sake. He was the first to proclaim the absolute freedom of dramatic art.' Discuss.

8. Sketch the plot of *Othello* or *The Alchemist*.

9. Analyse any two of the following characters: Jaques, Edmund, Lady Macbeth, Volucnia.

10. Compare the characters of Edward II. and Richard II., or those of Mortimer and Bolingbroke.

11. 'I do not know
 Why yet I live to say "This thing's to do";
 Sith I have cause and will and strength and means
 To do't.'

Consider Hamlet's character in the light of these words.

12. Why has *The Tempest* been called a drama of reconciliation? Is it a drama different in type from *As You Like It*?

13. Discuss any two of the following statements: (a) 'The *Two Gentlemen of Verona* is to *Much Ado About Nothing* what a sketch is to a picture'; (b) 'Webster stirs fear and pity almost as much as Shakespeare, but he requires much more apparatus to produce the effect'; (c) 'In *Samson Agonistes* the intermediate parts have neither cause nor consequence, neither hasten nor retard the catastrophe.'

14. Write notes on Mephistopheles, Claudio, Celia, The Fool in *King Lear*, Aufidius.

D. SELECTIONS FROM THE 'SPECTATOR.'

15. Discuss the humour of Addison, and illustrate your answer by reference to the *Selections*.

16. Describe two of the following papers: *Sir Roger at the Assizes*; *Party Patches*; *Hilpa and Shalum*; *Remarks on the English by the Indian Kings*.

17. (Compulsory Question.) Explain, with reference to the context: (a) 'Yes,' says he, 'my dear, and the next post brought us an account of the battle of Almanza.'

(b) The women were of such an enormous stature that 'we appeared as grasshoppers before them.'

(c) He has digested them into such a series that they follow one another naturally and make a continued system of practical divinity.

(d) As I was counting the arches the genius told me that the bridge consisted at first of a thousand arches.

(e) When Sir Roger saw Andromache's obstinate refusal to her lover's importunities, he whispered me in the ear, that he was sure she would never have him.

(f) After dinner a very honest fellow chancing to let a pun fall from him, his neighbour cried out, 'To the infirmary.'

E. PALGRAVE'S 'GOLDEN TREASURY,' BOOK IV.

18. Show your acquaintance (a) with Wordsworth's sonnets suggested by aspects of Nature, or (b) with some of the war poems contained in the *Golden Treasury*.

19. How does Shelley's lyrical poetry differ from that of all his contemporaries?

20. Complete the following quotations, and assign them to the poems from which they are taken:

(a) Yet leaving here a name, I trust,

(b) It was a miracle of rare device,

(c) flowers that well may court

An angel's feet to tread them down.

(d) Huge cloudy symbols of a high romance,

(e) And saw in sleep old palaces and towers,

(f) He sang of battles and the breath

Of stormy war.

SECOND PAPER—THREE HOURS.

II. FOR STUDENTS OF SESSION 1898-99.

(Answer NINE questions, taking ONE from A, ONE from B, FOUR from C, TWO from D, and ONE from E. Questions 7 and 17 must be taken.)

Students who attended the English Class before Session 1893-94 may substitute for the question from B a question from any other section, noting on the outside of their papers the year of their attendance).

A. COMPOSITION.

1. What are the defects of style to which preachers and journalists are respectively most prone?

2. 'In the end the one virtue of style is clearness. Inaccuracy is bad because it interferes with clearness; ornament is justifiable only when it makes the writer's meaning more clear.' Discuss.

3. What is a fixed metaphor? Are mixed metaphors ever justifiable? What is irony? How is it related to hyperbole?

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Er of a man that the dede es nere.

(‘dede’ = ‘death’; ‘thir takens sere’ = ‘these several tokens.’)

C. IMAGINATIVE LITERATURE OF WORDSWORTH’S AGE.

7. (Compulsory Question.) Give *brief* accounts of *six* of the following, with the authors’ names, and the approximate dates of composition: (a) *Love’s Philosophy*; (b) *Hartleap Well*; (c) *The Eolian Harp*; (d) ‘In a drear-nighted December’; (e) ‘The Sun upon the Weirclaw Hill’; (f) *Extempore Effusion on the Death of James Hogg*; (g) ‘So, we’ll go no more a-roving’; (h) *The Clout*.

8. Which of the poets of Wordsworth’s age do you personally prefer? Can you give reasons for your preference?

9. Compare Wordsworth as a poet of Nature with any other poet of his time.

10. “The European poetry of England began and ended with Byron and Shelley.” “The representative of the Revolution in its pure ideal is not Byron but Shelley.” Discuss.

11. Give a critical account of any *two* of the following: *Michael*, *The Vision of Judgment*, *Prometheus Unbound*, *The Bride of Lammermoor*.

12. Discuss any *two* of the following statements: (a) ‘Some passages in *The Prisoner of Chillon* might have been written by Wordsworth’; (b) ‘*Hyperion* shows what Keats might have been better than any other of his poems’; (c) ‘The poetry of Coleridge is not really much affected by the metaphysician in him.’

13. ‘Scott’s longer poems are about on the level of *Ivanhoe*; there is nothing in them so poetic as the best things in his best novels.’ Discuss.

14. Write notes on (a) the metre of *Christabel*; (b) Shelley’s imagery; (c) Wordsworth’s political creed.

D. HAMLET.

15. ‘I do not know
Why yet I live to say “This thing’s to do”;
Sith I have cause and will and strength and means
To do’t.’

Consider Hamlet’s character in the light of these words.

16. Describe the part played in *Hamlet* by any *two* of the following: Laertes, Ophelia, The Queen, Horatio.

17. (Compulsory Question.) Explain, with reference to the context:

- (a) the dram of eale
Doth all the noble substance of a doubt
To his own scandal.

(b) By’r lady, your ladyship is nearer to heaven than when I saw you last by the altitude of a chopine.

- (c) Marry, this is miching mallecho ; it means mischief.
 (d) Rightly to be great
 Is not to stir without great argument,
 But greatly to find quarrel in a straw
 When honour's at the stake.
 (e) Is thy union here?

E. THE 'VICAR OF WAKEFIELD.'

18. Mention any evidences of carelessness in construction which you have noticed in the *Vicar of Wakefield*.

19. Instance any scenes or passages in which the author seems to you to be at his best in the novel.

20. What place should be assigned to the *Vicar of Wakefield* in the history of English fiction?

FRENCH LANGUAGE AND LITERATURE.

FIRST PAPER—THREE HOURS.

I. Translate into English :

Giton a le teint frais, le visage plein et les joues pendantes, l'œil fixe et assuré, les épaules larges, l'estomac haut, la démarche ferme et délibérée. Il parle avec confiance ; il fait répéter celui qui l'entretient, et il ne goûte que médiocrement tout ce qu'il lui dit. Il déploie un ample mouchoir, et se mouche avec grand bruit ; il crache fort loin, et il étérnue fort haut. Il dort le jour, il dort la nuit, et profondément ; il ronfle en compagnie. Il occupe à table et à la promenade plus de place qu'un autre ; il tient le milieu en se promenant avec ses égaux ; il s'arrête, et l'on s'arrête ; il continue de marcher, et l'on marche ; tous se règlent sur lui. Il interrompt, il redresse ceux qui ont la parole ; on ne l'interrompt pas, on l'écoute aussi longtemps qu'il veut parler ; on est de son avis, on croit les nouvelles qu'il débite. S'il s'assied, vous le voyez s'enfoncer dans un fauteuil, croiser les jambes l'une sur l'autre, froncer le sourcil, abaisser son chapeau sur ses yeux pour ne voir personne, ou le relever ensuite, et découvrir son front par fierté et par audace. Il est enjôné, grand rieur, impatient, présomptueux, colère, libertin, politique, mystérieux sur les affaires du temps : il se croit des talents et de l'esprit. Il est riche.

LA BRUYÈRE, *Les Caractères* (Des biens de fortune).

II. Translate into French :

(a) She sat quite still, far on into the night : with no impulse to change her attitude, without active force enough even for the mental act of prayer : only waiting for the light that would surely come again. It came with the memories that no passion could long quench : the long past came back to her, and with it the fountains of self-renouncing pity and affection of faithfulness and resolve. The words that were marked by the quiet hand in the little old book that she had long ago learned by heart rushed even to her lips, and found a vent for themselves in a low murmur that was quite lost in the loud driving

of the rain against the window and the loud moan and roar of the wind: "I have received the Cross, I have received it from Thy hand I will bear it, and bear it till death, as Thou hast laid it upon me."

GEORGE ELIOT, *The Mill on the Floss*.

- (b) A thing of beauty is a joy for ever :
 Its loveliness increases ; it will never
 Pass into nothingness ; but still will keep
 A bower quiet for us, and a sleep
 Full of sweet dreams, and health, and quiet breathing.
 Therefore, on every morrow, are we wreathing
 A flowery band to bind us to the earth,
 Spite of despondence, of the inhuman dearth
 Of noble natures, of the gloomy days,
 Of all the unhealthy and o'er-darkened ways
 Made for our searching—yes, in spite of all,
 Some shape of beauty moves away the pall
 From our dark spirits.

KEATS, *Endymion*, Book I.

SECOND PAPER—THREE HOURS.

1. *Composition française*—Traiter l'un des sujets suivants :

(a) "La Bruyère était un grand peintre et n'était pas peut-être un grand philosophe. Le Duc de la Rochefoucauld était philosophe et n'était pas peintre." Expliquer, développer et apprécier ce jugement de Vauvenargues.

(b) Quels sont les personnages qui eurent une influence sur Pascal ? Préciser leur rôle et déterminer les conséquences de l'influence exercée par chacun d'eux.

(c) Caractériser le style de Pascal, celui de La Rochefoucauld et celui de La Bruyère. Peut-on les comparer ?

2. *Questions on French Grammar*. (To be answered in English or in French, additional marks being given for a good French style.) Answer one of the three following questions :

(a) Faire une esquisse rapide de l'histoire interne de la langue française du XI^e au XVI^e siècle inclusivement.

(b) Exposer aussi complètement que possible l'emploi de l'article défini en français et en anglais.

(c) Expliquer en détail l'emploi des temps du mode indicatif en français. Donner de nombreux exemples, et comparer, à ce point de vue, le français et l'anglais.

GERMAN LANGUAGE AND LITERATURE.

FIRST PAPER—Two Hours.

Translate into English :

Zwei und ein halbes Jahr später, eines Abends in der letzten Märzwoche, durchrasselte ein Miethwagen in polizeiwidrig schneller Fahrt eine der ältesten und engsten Strassen Odenburgs, den Bischofs-

gaden, und hielt vor dem Mauerpförtchen auf der Nordseite des Pfarrwinkels. Der Aussteigende trug waschlernerne Kniehosen, Kanonenstiefel und eine feuerrote, mit Goldtressen überladene Jacke. Wohl nur die Dringlichkeit seines Auftrages hatte ihn verhindert, sich zum Schutz gegen das feuchtkalte Schlackenwetter mit einem Mantel zu versehen. Er kam aus der ersten Vorstellung der jüngst in Odenburg wieder eingetroffenen Zaleskyschen Kunstreiter- Athleten- und Akrobatengesellschaft, um den Hauptpastor, Herrn Ulrich Sebald zu holen. Die berühmte Reiterin Miss Arabella, meldete er, sei gestürzt, habe sich lebensgefährlich verletzt und begehre den geistlichen Beistand des Herrn Pfarrers, aber unverzüglich, da sie fürchte, binnen weniger Stunden, wenn nicht schon zu sterben, so doch das Bewusstsein zu verlieren. So schwer es den jungen Geistlichen ankam, sich loszureissen vom Krankenbette seiner Frau, deren Zustand Doktor Mannheimer für bedenklich erklärte, er gehorchte seiner Amtspflicht und befand sich bald in der von der Reiterin am Circusplatze gemietheten Wohnung.

Answer SIX of the following questions, taking TWO from A, TWO from B, and TWO from C (of which C 16 must be one). The answers are to be given in German.

A.

1. Was verstehen Sie unter Weltanschauungsgeschichte und welche Beziehungen hat dieses Fach zur Literaturgeschichte?
2. In welche Perioden kann man die deutsche Literaturgeschichte einteilen, wenn man die verschiedenen Weltanschauungsepochen zugrunde legt?
3. Welche Verbindung besteht im Deutschland des neunzehnten Jahrhunderts zwischen Philosophie, freiem Denken und schöner Literatur? Welche Dichter und welche Werke behandeln Weltanschauungsfragen?
4. Kennzeichnen Sie die Weltanschauung der romantischen Philosophen, vor allem Fichtes.
5. Welche Stellung nimmt Karl Gutzkow in der geistigen Entwicklung Deutschlands im neunzehnten Jahrhundert ein?

B.

6. Geben Sie eine Charakterisierung der Dichter der Befreiungskriege.
7. Geben Sie eine Skizze von der Entwicklung des deutschen Romanes von Goethe's Wilhelm Meister bis zu Gutzkow.
8. Schildern Sie die sogenannte Krafttragoedie in ihren hauptsächlichsten Vertretern.
9. Kennzeichnen Sie die vier grössten deutschen Lyriker unseres Jahrhunderts. Geben Sie eine Schilderung der Unterschiede zwischen ihnen.
10. Nennen Sie die Hauptvertreter der deutschen Ballade seit Schiller und Goethe, nennen Sie deren Hauptballaden und fügen Sie dem eine kurze Inhaltsskizze derselben bei.

C.

11. Geben Sie ein Bild von dem Leben und Dichten Ludwig Tiecks.
12. Erzählen Sie den Inhalt von Platen's Abassiden, Kleist's Penthesilea, Körner's Zriny oder Hebbel's Maria Magdalena.
13. Schildern Sie Ludwig Uhland's Leben, politisches Wirken und wissenschaftliches Arbeiten.
14. Erzählen Sie den Inhalt von Müllner's Schuld, Grillparzer's Goldenem Fliess oder Hebbel's Nibelungen.
15. Schildern Sie das Leben und die Werke Friedrich Rückerts.
16. Geben Sie die Verfasser folgender Werke: Erbforster, Griseldis, Agnes Bernauer, Zwischen Himmel und Erde, Herodes und Mariamne, Don Juan und Faust, Sophonisbe, Herzog Theodor von Gothland, Gedichte eines Lebendigen, Lieder eines kosmopolitischen Nachwächters, Albigenser, Schutt, Karlsschüler, Graf Essex, Das Junge Europa, Ritter vom Geiste, Zopf und Schwert, Briefe eines Verstorbenen, Königsleutenant, Deutschland ein Wintermarchen, Peter Schlemihl, Romanzero, Gedichte eines reisenden Waldhornisten, Aus dem Leben eines Taugenichts, Romantischer Oedipus, Schatz des Rhapsinit, Weisheit des Brahmanen, Liebesfrühling, Mann im Mond, Herzog Ernst von Schwaben, Lichtenstein, Des Knaben Wunderhorn, Ein treuer Diener seines Herrn, Sappho, Gockel Hinkel und Gackeleia, Des Meeres und der Liebe Wellen, Der 29. Februar, Tulifantchen, Stunden der Andacht, Epigonen, Elixiere des Teufels, Cæcilie, Lebensansichten des Kater Murr, Undine, Die Söhne des Thales, Prinz von Homburg, Der zerbrochene Krug, Dies Buch gehört dem König, Familie Schroffenstein, Kronenwächter, Godwi, Fortunat, Kaiser Octavianus, Franz Sternbalds Wanderungen, Ritter Blaubart, Heinrich von Ofterdingen, Prinz Zerbino, Robert Guiscard.

SECOND PAPER—TWO HOURS.

A.

Translate into German :

I know a woman who, from some distaste or disability, could never so much as understand the meaning of the word 'politics,' and has given up trying to distinguish Whigs from Tories; but take her on her own politics, ask her about other men or women and the chicanery of every-day existence—the rubs, the tricks, the vanities on which life turns—and you will not find many more shrewd, trenchant, and humorous. Nay, to make plainer what I have in mind, this same woman has a share of the higher and more poetical understanding, frank interest in things for their own sake, and enduring astonishment at the most common. She is not to be deceived by custom, or made to think a mystery solved when it is repeated. I have heard her say she could wonder herself crazy over the human eyebrow. Now in a world where most of us walk very contentedly in the little bit circle of their own reason, and have to be reminded of what lies without by specious and clamant exceptions—earthquakes, eruptions of Vesuvius, banjos floating in mid-air at a *séance*, and the like—a mind so fresh and unsophisticated is no despicable gift. I will own I think it is a better sort of mind than goes necessarily with the clearest views on public business.

B.

Translate into English :

Rufts dich um die Mitte tiefer Nacht
 Oftmals nicht vom leisen Schlaf empor?
 Bald ein Ton, der grell im Schmerze lacht,
 Weinend bald wie ferner Büsserchor?
 Wie Daemonenlust, wie Märzensturm,
 Wie zerrissner Glockenklang vom Turm.
 Und dann grüszlich wie der Höllenhund,
 Wimmerts aus der Erde letztem Grund . . .
 Manchmal wie absondres Weinen klings,
 Wie ein Kind auf irren Wegen klagt;
 Und dann wieder fern aus Höhen sings,
 Wie aus Morgenwolken, eh' es tagt . . .
 Und dann braust wie stolzer Ströme Gang,
 Der vom Tauschnee murrend wächst und schwillt,
 Und ertönt dann wieder zart und bang,
 Wie das Harzgetropf aus Stämmen quillt.

C.

Write a German essay on Wildenbruch's "Karolinger."

Answer SIX of the following questions, taking THREE from D and THREE from E (of which Question 10 must be one). The answers may be given either in English or in German.

D.

1. Give the history of the German definite and indefinite articles and of the German relative pronouns.
2. Give the history of the German passive voice and of the German future tense.
3. Compare English and German usage as regards periphrastic tenses. Give a historical sketch of the German perfect tense.
4. In what cases does the German language sanction the use of the infinitive without *zu*? Give the historical reasons for that sanction.
5. Give German participles, both present and perfect, which have now become adjectives. In what cases have they different forms from the participles proper? In what cases have they different constructions?
6. Compare historically German and English word orders.
7. Give the historical reasons for the modern German form of restrictive clauses.

E.

8. In what cases have German proper nouns the article?
9. In what cases must the German article stand twice whilst the English article stands once only?
10. Translate into English: Vorsteherin, Edellente, Dienstmänner, Dienstmannen, Dienstboten, Dienstleute, Diener, Dienstmädchen, Dienstmagd, Eheleute, Ehemänner, Fuhrleute, Gebrüder, Geschwister, Frauenzimmer, Kleinmut, Wehmut, Räte, Ratschläge, Pfingsten,

Zinsen, Erben, Erbschaften, Bände, Bande, Bänder, Bündel, Schilder, Schilde, Schilderungen, Thore, Thoren, Thüren, Marschen, Märsche, Heideland, Heidenland, Landsleute, Landleute, Ich glaube dir, Ich glaube an dich, Es setzt Hiebe, Der Junge, Das Junge, gut, wohl.

11. Show which constructions the following adjectives and verbs had in Lessing's time and which they have now: *fähig, unfähig, leer, begierig, satt, verklagen, freisprechen, entlassen, entbinden, mahnen, erinnern, schämen, sich wehren*.

12. In which cases is *es* used as the grammatical subject of a sentence? Explain historically the phrase *Es giebt*.

13. What do you know about the change which is at present going on in German as regards the use of the auxiliary verbs *haben* and *sein*?

14. Give a sketch of the various meanings of *können, dürfen, mögen, müssen, sollen, wollen, lassen*, with a historical commentary.

15. What do you know about the respective frequency of the active and the passive voices in English and in German? What German phrases may replace an English passive? What English phrases may replace a German passive?

HEBREW.

FIRST PAPER—THREE HOURS.

I. Point and translate :

יפגוע במקום וילן שם כִּי־בא השמש ויקח מאבני
המקום וישם מראשתיו ויטבב במקום ההוא : ויהלם
והנה סלם מצב ארצה וראשו מגיע השמימה והנה
מלאכי אלהים עלים וירדים בו : והנה יהוה נצב עליו
ויאמר אני יהוה אלהי אברהם אביך ואלהי יצחק הארץ
אשר אתה שבב עליה לך אתננה ולזרעך : והיה
זרעך בעפר הארץ ופרצת ימה וקדמה וצפנה ונגבה
ונברכו בך כל־משפחת האדמה ובזרעך : והנה אנכי
עמך ושמרתך בכל אשר־תלך והשבתך אל־האדמה
הזאת כי לא אעזובך עד אשר אס־עשיתי את אשר־
דברתי לך :

II. Translate into Hebrew with the vowel-points :

There was a Jew in the land of Arabia, whose name was Samuel, the son of 'Adiah, who inhabited the castle¹ of Ablaq, for many Jews occupied castles there before the time of the coming of the Prophet. Now Samuel had dug a well of sweet water near Ablaq, and the Arabs were wont to come together to there from time to time to buy and sell ; so this man became one of the greatest of the children of the East. But

his name has become famous, not for his wealth which he had acquired, nor for the songs which he composed, but for his truthfulness and uprightness in all his doings. For, when the prince of Kindah was going towards Syria to visit the king of the isles of Chittim, he very nearly fell into the hands of his enemies, and escaped from them along with his daughter and a small number of his men, and sought refuge with Sammel, son of Adaiah. So they turned in to him to the castle of Abilaq, and Sammel made a covenant with him in the sight of all his people, and assigned him a place to dwell in. And after some days Samuel wrote a letter for him to the prince of Edom, that he should convey him to the presence of the great king, and he gave him also a man to show him the way, and so sent him away. And it came to pass after his departure that one of the tribes who had gone out to war approached the castle of Abilaq and encamped against it for some days. And it fell on a day that the son of Samuel, a handsome youth, aged twenty years, went out to hunt and fell into the hands of the enemy. So they bound him and brought him near to the castle, and one cried with a loud voice and showed Samuel his son and said to him 'Knowest thou this youth?' And he said, 'Yea, I know him, he is my son.' 'Wilt thou then,' said the other 'give up to us the daughter of the prince of Kindah and all his property which is in thine hand?' And Samuel replied, 'As the Lord liveth, I will not do this thing. I have made a covenant, and I will not take it back, to deliver up the souls and the property of the stranger.'² Then this wicked man lifted up his hand and slew the son of Samuel before the eyes of his father, and Samuel held his peace. Wherefore they that speak in proverbs say, More faithful than Sammel, son of Adaiah.

¹Castle, מְצִידָה²Stranger, זָרָא

III.

1. Give a sketch of the history of the kingdom of the ten tribes from the time of Ahab till the fall of Samaria, and characterise different phases of the period.

2. What can be gathered from the book of Amos as to the political, social, and religious condition of Israel in his days?

3. What considerations led critics to the theory of different sources in the Pentateuch? How are the different sources now generally designated, and by what characteristics are they distinguished?

SECOND PAPER—THREE HOURS.

I. 1. Translate Genesis v. 13—22.

2. Parse תְּשִׁיבָה and מִיָּבֵיא (in v. 16), לְשִׁמְתָּה (in v. 17), וְהִקְמַתִּי (in v. 18), לְהִהְיֹת (in v. 19), and קָה (in v. 21).

3. What is the Syntax of (a) הָמָן and הָאָרֶץ (in v. 13), קָיָם (in v. 14); (b) וּבִפְתֵר (in v. 14), הִקְמַתִּי (in v. 18); (c) מִיָּבֵיא (in v. 17), יֹאכֵל (in v. 21); (d) הַמִּשְׁכָּל מִיָּם (in v. 17)?

4. What is the subject of מִיָּבֵיא (in v. 17), and to what does the suffix in מִפְּתִיחָם (in v. 13) refer?

5. What is the difference in meaning between עֵץ and עֵצִים?
 6. Account for the Article in בַּכֶּפֶר (in v. 14), and remark on the pointing of הַהֵר (in v. 19)?
 7. To what document does the passage belong? What words and phrases indicate this?
- II. 1. Translate Psalm cx.
2. Parse, נָשַׁב and אֲשִׁית (in v. 1), רָדָה (in v. 2), יִנְהֵם (in v. 4), יָדִין and מִנָּא (in v. 6), יָרִים (in v. 7).
 3. Give the Syntax of רָדָה (in v. 2), נִדְבַת (in v. 3), מִיָּהֲרִן (in v. 5), גִּרְיֹת (in v. 6).
 4. Remark on עַל־דַּבָּרָיו (in v. 4) as to its form and meaning.
 5. The LXX. render v. 3, Μετὰ σοῦ ἡ ἀρχὴ ἐν ἡμέραις τῆς διουμέως σου ἐν ταῖς λαμπράτησιν τῶν ἁγίων σου ἐκ γαστρὸς πρὸ ἑωσφόρου ἐγέννησά σε. What changes in the Hebrew text are necessary in order to yield this rendering?
 6. Point out a difficulty in בַּהֲדַר־קֶדֶשׁ (in v. 3), and give a different reading which many prefer.
 7. What is the difference in meaning between אֶדְרִי and אֶדְרִי?
- III. 1. Translate Amos. iv. 4—13.
2. Parse הָרָבִי (in v. 4), נָתַי and שִׁבְתָּם (in v. 6), תִּכְבֵּשׁ (in v. 7), וְנָעַר (in v. 8), הָרַבּוֹת and הַכִּיּוֹרִי (in v. 9), הַכּוֹן (in v. 12).
 3. What is the Syntax of (a) הָאֶלֶל (in v. 4), אֶת־כֹּדֶם and וְאֶת־עֲמֻמָּה (in v. 11), שָׂדֵה עֵפֶה (in v. 13); (b) וְהַמִּטְרֵי . . . and הַמִּטְרֵי (in v. 7), וְנָעַר (in v. 8)?
 4. To what does the suffix of שָׂדֵה (in v. 13) refer?
 5. When does harvest begin in Palestine, and how long does it continue? In what months do "the first rain and the latter rain" fall?

B.—DEPARTMENT OF MENTAL PHILOSOPHY.

LOGIC—THREE HOURS.

(Select TEN of the following questions.)

1. (a) State the two syllogistic rules that bear on the distribution of terms in syllogism, and show by general reasoning that no argument which breaks either of them can be valid.
- (b) A syllogism in which both rules regarding distribution of terms are observed is invalid by having the conclusion negative while both premisses are affirmative. Construct the syllogism and name the figure and mood represented by it.

2. (a) Define *obverse* and *contrapositive*. Give the contrapositives of the A, E, I, and O propositions.

(b) From the assertion '*The unknowable is not unthinkable*' what can we learn, if anything, about (1) the *unthinkable*, and (2) the *not-unknowable*?

(c) Two investigators of the relations between insects and flowers arrive, one at the result that 'if flowers are beautiful, they are fertilized by insects,' and the other at the result that 'flowers not fertilized by insects are not beautiful.' Compare these results.

3. Express the following in syllogistic form, stating figure and mood, if valid, and the fallacy, if invalid:

(1) C is not D, for A is B; and I know that whenever A is not B, C is D.

(2) He is a very energetic student that attends lectures at 8 a.m.; the Glasgow student does this; he is therefore very energetic.

(3) No student can be expected to publish a treatise on the syllogism, and none but students can be expected to remember the syllogistic moods; consequently, no one can be expected both to publish a treatise on the syllogism and to remember the syllogistic moods.

(4) The existence of sensations consists in being perceived; all objects are really collections of sensations; therefore, their existence consists in being perceived.

4. (a) Explain briefly the following terms, giving an illustration where necessary: *Contrary opposition*, *Division by Dichotomy*, *Fallacy of the Consequent*, *Perfect Induction*, *False Analogy*, *Vera Causa*, *Empirical Law*, *Argumentum ad hominem*.

(b) How would you distinguish (1) Logical Division from Enumeration or Partition, (2) Logical Definition from Description?

5. What distinction is implied in the terms *Analytical* and *Synthetical* when applied to judgments? Do you think the distinction valid or useful (a) from the point of view of Formal Logic, (b) from the psychological point of view?

6. What do you hold to be the essential steps in a complete Inductive Method? Illustrate by an example, and point out the elements in the process which might be regarded as *deductive*.

7. 'Mill's Methods serve to suggest hypotheses, but cannot establish them.' Discuss this statement, and consider generally the kind of tests that may be applied to Hypothesis.

8. Explain the terms 'conscious,' 'unconscious,' 'sub-conscious,' 'self-conscious.' Is there any evidence of the existence of states of mind that are (a) sub-conscious, (b) unconscious?

9. What difficulties are encountered in the attempt to determine the psychological character of Feelings and their relation to (a) Sensations, (b) Impulses? Examine the view that a Feeling is exclusively pleasurable or painful.

10. (a) Discuss the relation between Memory and Imagination.

(b) What circumstances determine the reference of a memory-image or idea (1) to our past experience rather than to the future, (2) to some definite point in our past experience?

11. (a) 'It is precisely the gathering of energy round some one idea as the centre of association that constitutes Attention.' Discuss this statement.

(b) What effect does an anticipatory idea produce on Attention?

12. State clearly the salient features of Descartes' doctrine of External Perception.

13. What are the several proofs offered by Descartes of the existence of God?

14. Define in general terms the problem to which both the Rationalist and the Empirical theories of Knowledge converged, taking Descartes and Locke as representative exponents.

15. Illustrate from the history of modern theories of Knowledge the importance attaching to the determination of the grounds for the special character of mathematical demonstration.

MORAL PHILOSOPHY—THREE HOURS.

(All candidates for the Degree are required to answer not less than two nor more than THREE questions in Section A, and not less than SIX nor more than SEVEN in EITHER Section B OR Section C.)

SECTION A.

1. What conception of the personality and methods of Socrates do you gather from the *Republic*?

2. Characterise the various theories of the origin of the State as discussed in the first books of the *Republic*.

3. Examine the various arguments by which Plato seeks to prove that the life of the just man is happier than that of the unjust.

4. 'Opinion deals with the changing; intelligence with the real.' Discuss this theory of Plato, and illustrate it by Plato's segmental diagram of the objects of the soul.

5. Comment upon the following, and refer them to their context:

(a) "The eyes may be confused in two distinct ways and from two distinct causes."

(b) "The chief good is insight into good."

(c) "Do you not also think that everything which has an appointed function has also a proper virtue?"

(d) "The physician removes what is bad, and leaves what is good; but the tyrant removes the good, and leaves the bad."

SECTION B.—FOR STUDENTS OF 1894-95 AND SUBSEQUENT SESSIONS.

1. What are the merits and defects of the Intuitionist Method of Ethics?

2. What is the value of the conception of the moral life as an equilibrium of impulses?

3. 'In order to be moral man must be capable of determining himself; but that which is a part of a whole cannot determine itself.' Discuss this statement.

4. How far is it true that Virtue is Knowledge?

5. What are the main points in which the modern State differs from and agrees with the Greek State?

6. 'Modern civilization is neither Jewish nor Greek.' Discuss this statement.

7. 'The doctrines of the Stoics, Epicureans, and Sceptics, were based on the same fundamental assumptions.' Explain and examine this statement.

8. "From '*Each for himself*' to '*Each for all*' there is no road." Discuss this statement, particularly in relation to modern Hedonism.

9. "Objects are in themselves desirable or undesirable, and our desires are simply the results of their incitations." Discuss this, with special reference to the view of Hume.

10. Examine Kant's conception of the contrast between duty and inclination, and show how it affects the general structure of his ethical system.

11. Distinguish between the idea of Evolution and that of Organism. What light does the conception of Organism throw upon the problem of Knowledge?

SECTION C.—FOR STUDENTS OF ANY SESSION BEFORE 1894-95.

1. State and criticise Aristotle's doctrine of the nature of Virtue.

2. Sketch the moral theory of the Stoics.

3. Examine the view that the moral end is (a) self-denial, (b) self-realization.

4. Characterise generally the Moral Sense school of Ethics.

5. Discuss the relation between Morality and Knowledge.

6. State and examine the arguments for Determinism.

7. State and criticise the main doctrines of Utilitarianism.

8. Sketch the ethical doctrine of either Hume or Kant.

POLITICAL ECONOMY—THREE HOURS.

(*Not more than EIGHT questions to be attempted.*)

1. Apportion the gross receipts of a large industrial concern owned by one individual, giving each portion its proper economic name and description. What changes in the distribution will be effected if this business is converted into a Limited Liability Company?

2. Distinguish between Nominal and Real Wages. Point out the considerations involved in the comparison.

3. Explain the functions of Money, and show its relation to the Credit System.

4. Mention, and briefly criticise, some of the methods tried to obviously reconcile the interests of labour and of capital.

5. What part does Subsistence play in modern Distribution?

6. Compare Import Duties and Bounties on Export, and show briefly how they affect the Consumer, the Producer, and the Revenue of the country which adopts them.

7. How might decreasing Exports and increasing Imports be explained as witnessing to the prosperity of a country?

8. What is the principle of the Standard Rate of Wages?
9. "Trade Unions do for working men what Universities and other Corporations do for professional men." Examine this statement.
10. Apply the Ricardian theory of Rent to manufactures, and show how Rent does not enter into their price.
11. Explain the system of regulating Bank Note Issues in this country. Discuss its efficiency.
12. What is meant by calling the industrial organism a Co-operation of Service? Does the conception of Justice properly enter into economic study?

EDUCATION.

FIRST PAPER—THREE HOURS.

(Do not answer more than EIGHT questions.)

THEORY OF EDUCATION.

1. What importance is attached to physical exercise in school apart from its disciplinary value? What times would you set apart for such exercise? Why?
2. Describe what you believe to be the earliest phase of psychical life.
3. Define "Development of the mind." How is this development related to brain changes? To what extent should the sequence of school studies be determined by considerations regarding mental growth?
4. What do you mean by a "dull" child? Give notes on the treatment you would adopt in dealing with it.
5. What is the purpose of an Object Lesson? Examine Mill's saying, that one cannot properly observe unless he can describe what he observes. In what particulars does the ordinary object lesson often fail?
6. Explain briefly the meanings attached to the following terms, Concept, Memory, Imagination.
7. Analyse the process that is going on in the mind when one is endeavouring to recall a name that has slipped from the memory. What practical suggestion for class teaching does the analysis indicate?
8. Discuss "Secondary automatic actions." Professor James in an article on Habit says, "Make your nervous system your ally and not your enemy." Explain and illustrate this statement.
9. A teacher says to a child, "You must take an *interest* in your work." What exactly is meant by *interest*? Criticise the injunction given by the teacher, and indicate the treatment he should have adopted.
10. State and criticise Herbert Spencer's views on discipline.

SECOND PAPER—THREE HOURS.

(Do not answer more than FOUR questions in each Section.)

A.—METHODS OF EDUCATION.

1. In what ways does the Kindergarten system utilise the activity of the child? State and criticise the chief objections that have been taken to this system.

2. If obliged to choose between History and Geography as a school subject, which would you select? State the grounds of your preference.

3. "A *definition* is something to be worked up to and not from." Illustrate this. How far is it true in the case of a definition in Euclid or in the theory of music?

4. Give the points you would make in considering with a class the errors in the following statements:

"This cube is three times smaller than that."

"Explanation means to make clear."

"Newton discovered gravitation."

"Multiply the pounds by 20 to bring it to shillings."

5. Write short notes showing the steps in a lesson on (a) Snow and Hail, or (b) an Act of Parliament, or (c) the meaning of $a^{\frac{1}{2}}$.

B.—HISTORY OF EDUCATION.

1. Give succinctly the scheme of Athenian education. State the functions of the *paedagogue*, the *grammatist*, and the *sophist*.

2. What place does Erasmus occupy in the History of Education? Compare and contrast his views with those of Montaigne;

or, Contrast the training given in the Jesuit schools with that advocated by Rousseau.

3. State Jacotot's doctrines as an Educationist. What does he mean by "*Tout est dans tout*"? Consider the bearing of this phrase on modern school books.

4. To what extent did Froebel develop Pestalozzi's principles? What exactly is meant by saying "Froebel's principles should permeate the whole school"?

5. What practical suggestions for school-work may be got from a study of Arnold's life?

PHILOSOPHY OF LAW—(See Jurisprudence, p. 556).

C.—DEPARTMENT OF SCIENCE.

MATHEMATICS.

FIRST PAPER—THREE HOURS.

1. If two angles of a triangle be equal, the sides opposite to them shall also be equal.

Construct a triangle, given one side, an angle adjacent to it, and the difference of the other two sides.

2. Enunciate the propositions in the First Book of Euclid's Text which deal with the complete equality of two triangles.

Can it ever be asserted that two triangles which have two sides of the one respectively equal to two sides of the other, and the angles opposite to one pair of equal sides equal, are equal in every respect? Discuss this case.

In the triangle ABC , $AB = AC$; DE is drawn parallel to BC cutting AB and AC in D and E . Show that BE and CD intersect on the bisector of the angle A .

3. If a straight line be divided into two equal and also internally into two unequal segments, the sum of the squares on the two unequal segments is double the sum of the squares on half the line and on the line between the points of section.

$ABCD$ is a square; K is any point on the diagonal AC ; show that $AK^2 + KC^2 = 2BK^2$.

4. If the opposite angles of a quadrilateral be supplementary, the four vertices lie on a circle.

In the triangle ABC , $AB = AC$. The bisectors of the angles B and C meet the opposite sides in K and L and intersect in O . If M be a point on BC such that $BM = BL$, show that the points M, C, K, O lie on a circle.

5. On a given straight line describe a segment of a circle which shall contain an angle equal to a given angle.

$ABCD$ is a quadrilateral inscribed in a circle; the points A, B are fixed; C, D move subject to the restriction that CD is of constant length. Find the locus of the point of intersection of the diagonals of the quadrilateral.

6. Prove that the common chord of two intersecting circles is perpendicular to the line joining their centres. Show that from any point on this common chord outside of both circles, four equal tangents can be drawn to the two circles.

7. Inscribe a circle in a triangle.

If the base of a triangle be given and the radius of the inscribed circle, the centre of the circle will lie on a line parallel to the base. Is there any part of this line to which it is restricted?

8. If two triangles be equiangular, they are similar.

ABC is a triangle; AD is drawn perpendicular to BC ; the circle described on AD as diameter cuts AB and AC in E, F respectively. Show that $AE:AF = AC:AB$.

9. Similar triangles are to one another in the duplicate ratio of their homologous sides.

$ABCD$ is a quadrilateral inscribed in a circle, AC being a diameter; BE is drawn perpendicular to AC to cut AD in E . Show that $AE:AD = \text{duplicate of } BE:BD$.

10. Any rectilinear figure described on the hypotenuse of a right-angled triangle is equal to the sum of the similar and similarly described figures on the other two sides.

Divide a straight line into two parts such that the equilateral triangle described on one part as base may be double that described on the other part as base.

11. Three lines drawn from the vertices of a triangle to meet the opposite sides (or the sides produced) are concurrent; show that the product of the ratios of the segments of the sides taken in order is unity.

$ABCD$ is a quadrilateral in which AB is parallel to CD . Show that the diagonals and the line joining the middle points of AB and CD are concurrent.

12. Define "the projection of a curve on a plane" and show that the projection of a straight line is a straight line.

If two straight lines be parallel, their projections on the same plane will be parallel.

SECOND PAPER—THREE HOURS.

1. Find four factors of the first degree in x for each of the following expressions :

- (i.) $4x^2 - (x^2 + 1 - a^2)^2$,
 (ii.) $(x^2 - x - 8)^2 - 7x(x^2 - x - 8) + 6x^2$,
 (iii.) $x^4 - 5x^3 + 5x^2 + 5x - 6$.

Hence find the values of x for which these expressions separately vanish.

2. Solve the equations :

- (i.) $\frac{4}{x} + \frac{3}{y} = 17, \quad \frac{3}{x} + \frac{2}{y} = 12$;
 (ii.) $6(x-1)\left(\frac{x^2}{x+1} + \frac{x+1}{x^2}\right) = 13(x-1)$;
 (iii.) $x^2 + y^2 + 3xy = 79, \quad x + y + 2xy = 38$.

3. If α, β be the roots of the equation $ax^2 + bx + c = 0$, show that $\alpha + \beta = -\frac{b}{a}$ and that $\alpha\beta = \frac{c}{a}$.

Deduce the condition that the roots be reciprocals.

Find by inspection the roots of the equation $x^2 - \frac{1}{6}x + 1 = 0$.

If α, β be the roots of $ax^2 + bx + c = 0$, form the quadratic equation whose roots are $\alpha(\alpha+1)$ and $\beta(\beta+1)$.

4. A watch is set to correct time at 3 o'clock. After $16\frac{3}{4}$ minutes it is observed that the hands coincide. How many seconds has the watch gained or lost by the time it indicates 4 o'clock?

5. If a series of numbers, beginning with a and ending with b be in Geometrical Progression, show that the product of any two equidistant from the beginning and end of the series is ab .

What is the exact meaning of the statement : "The sum of an infinite number of terms of the series $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$ etc. is 1"?

Find the common ratio of a Geometrical Progression continued to infinity in which any term is $\frac{1}{3}$ of the sum of all the terms that follow it.

6. Show that the total number of ways of arranging m black balls and n red balls in a row is $\frac{m+n}{m \cdot n}$.

7. Prove that

$$(1+x)^n = 1 + nx + \frac{n(n-1)}{2}x^2 + \dots + \frac{n(n-1)\dots(n-r+1)}{r}x^r + \dots + x^n$$

if n be a positive integer.

Find the term independent of x in the expansion of $\left(x^3 - \frac{1}{3x}\right)^n$; state the restriction on n that there may be such a term.

8. If x be so small that its cube and higher powers may be rejected, show that

$$\sqrt[3]{1+x} + \sqrt[3]{1-x} = 1 - \frac{x^2}{12} \text{ approximately.}$$

9. State and prove the exponential theorem.

Expand $\frac{1-x^2}{e^x}$ in a series of powers of x , showing the general term; give the coefficient of x^{19} .

10. Give definitions of $\sin A$, $\cos A$, $\tan A$ suitable for an angle of any magnitude, positive or negative.

Find from your definitions the sine, cosine and tangent of 960° .

Prove also from your definitions that $\sin A = \cos (A - 90^\circ)$.

11. Prove geometrically that

$$\cos 2A = \cos^2 A - \sin^2 A,$$

Establish the identities:

$$(i.) \ 1 + \cos \frac{\pi}{6} + \cos \frac{\pi}{3} = \cot \frac{\pi}{6} \left(\sin \frac{\pi}{6} + \sin \frac{\pi}{3} \right);$$

$$(ii.) \ \frac{\sin A + 2 \sin 3A + \sin 5A}{\cos A - 2 \cos 3A + \cos 5A} = \frac{4 \sin A - 3 \operatorname{cosec} A}{4 \cos A - 3 \sec A}.$$

12. Trace the changes in the magnitude and sign of $\frac{\sec^2 A}{2 - \sec^2 A}$ as A increases from 0° to 180° .

13. Prove that the complete solution of the equation $\cos \theta = \frac{1}{2}$ is

$$\theta = 2n\pi \pm \frac{\pi}{3}.$$

Solve the equations:

$$(i.) \ \cos 4\theta = \cos \theta,$$

$$(ii.) \ \sec^3 \theta - \tan^2 \theta = 1.$$

14. The mast of a ship is 51 feet high and consists of two portions jointed at a height of 25 feet from the deck. At what distance from it will the two parts subtend equal angles to an eye 5 feet above the deck?

15. Show how to solve a triangle given the angles and the perpendicular from a vertex to the opposite side.

In a triangle ABC , $A = 36^\circ 17'$, $B = 94^\circ 28'$, and the length of the perpendicular from C to AB is 56.34; find the lengths of the sides.

16. Define the logarithm of a number to a given base.

Prove that if two numbers have the same figures, *i.e.* differ only in the position of the decimal point, their logarithms to the base 10 will differ only by an integer.

$$\text{Evaluate} \quad \frac{\sqrt{4.712} \times \sqrt[3]{.0487}}{(1.208)^2}.$$

NATURAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

1. Show how to find the resultant of any number of forces in one plane acting on a particle.

$ABCDEF$ is a regular hexagon inscribed in a circle whose centre is O . A particle at O is acted on by forces 1, 2, 3, 4, 5, 6 directed along

OA, OB, OC, OD, OE, OF respectively. Find the direction and magnitude of the additional force that must act on the particle to keep it at rest.

2. State the laws which give the magnitude and the direction of limiting friction. What is "the angle of limiting friction"?

A uniform ladder, 20 feet long, rests with one end against a vertical wall and the other on the ground, the coefficient of friction of both surfaces being 0.5. Find how high a man, whose weight equals that of the ladder, may climb up it before it begins to slip, the foot of the ladder being 12 feet from the wall.

3. If a body be divided into two portions whose weights are w_1 and w_2 and whose centres of gravity are G_1 and G_2 respectively, show how to find the centre of gravity of the whole body.

A square hole is cut out of a circular disc of wood, one diagonal of the square being a radius of the circle. The wood cut out is replaced by a metal which is 9 times as dense as the wood. Show that the centre of gravity of the composite disc is at a distance $\frac{d}{\pi+4}$ from the centre, d being the diameter of the circle.

4. A light, inextensible string rests on the surface of a rough circular cylinder, in a plane at right angles to the axis. If μ be the coefficient of friction and the string be just on the point of slipping, find the relation between the tensions at its extremities.

Two equal weights are attached to the ends of a light string which hangs over a rough cylinder whose axis is horizontal; prove that either weight must be increased by $w(e^{\mu\pi} - 1)$ that it may begin to descend, w being the common value of the suspended weights.

5. A point, starting with velocity u , moves with a constant acceleration f in the direction of its motion; if v be its velocity at time t , s its distance from the starting-point at the same instant, prove that

- (i.) $v = u + ft$,
- (ii.) $s = ut + \frac{1}{2}ft^2$,
- (iii.) $v^2 = u^2 + 2fs$.

A point is moving with uniform acceleration; it passes over 30 feet in the 3rd second after starting, and 14 feet in the 5th second. Find the initial velocity and the acceleration.

6. Enunciate Newton's Second Law of Motion.

Prove that if a particle be moving uniformly in a circle, it must be acted on by a force directed towards the centre of the circle; find the magnitude of this force if r be the radius of the circle, m the mass of the particle and ω its angular velocity about the centre.

A smooth hemispherical bowl is made to rotate uniformly about its axis held in a vertical position; if the radius of the bowl be 16 inches and a heavy particle inside remain resting against it at a height 8 inches above the lowest point, find the number of revolutions made in one minute.

7. A body is projected in a vertical plane with velocity u in a direction making an angle α with the horizontal; find the range on the horizontal plane through the point of projection and the time of flight.

A body slides from rest down a smooth roof inclined to the horizon at an angle of 30° . The length of the slope is 18 feet and the lowest point of the slope is 18 feet above the ground. Find the velocity of the body when it leaves the roof and show that it will strike the ground at a distance $9\sqrt{3}$ feet from the wall.

8. Define work and kinetic energy.

Prove that if a particle be moving in a straight line under the action of a constant force, the change in its kinetic energy in any interval of time is equal to the work done on it by the force.

A train whose mass is 100 tons is moving with a velocity of 60 miles per hour; the steam is shut off and the brakes are applied; if the train is brought to rest in 400 yards find the resistance to its motion, supposing it to be uniform; find also the work done by it in bringing the train to rest.

9. State Newton's Third Law of Motion; what is its bearing on the principle involved in the solution of the following problem?

A gun of mass 1 ton fires a shot of mass 20 pounds and recoils 4 feet against a resistance equal to its own weight; find the velocity with which the shot left the gun.

10. Define simple harmonic motion, and show that the acceleration of a point executing a simple harmonic motion is proportional to its distance from the centre of its path.

If a point moving with simple harmonic motion be at rest 4 feet from the centre of its path and have a velocity of 4 feet per second when passing through the centre, find its velocity and acceleration at a distance 2 feet from the centre; find the time that elapses before it describes this distance from rest.

11. State the principle of the Conservation of Energy.

A cylinder rolls from rest down a perfectly rough inclined plane. Show that the ratio of the linear velocity acquired by its centre of inertia to that due to a fall through the same vertical height is $\sqrt{2} : \sqrt{3}$.
 $\left(k^2 = \frac{r^2}{2}\right)$.

12. State and prove the rule which gives the whole pressure of a liquid on a surface immersed in it.

A cylindrical vessel containing water is gradually tilted, none of the water being spilt, till the axis of the cylinder is inclined at an angle of 30° to the vertical. By what fraction of itself is the pressure on the base diminished?

13. A cylinder of wood (specific gravity = 0.6) 12 inches high floats in water with its axis vertical. To what depth will it be immersed? How far will it rise out of the water if a liquid whose specific gravity is 0.2 be poured upon the surface of the water so as to completely cover the cylinder?

SECOND PAPER—THREE HOURS.

1. State what you know as to the variation from point to point, over the earth's surface, of the apparent gravity of bodies, both in direction and the amount of the force. Make a diagram to show the direction of apparent gravity at a place on the earth's surface, in latitude, say, 45° .

How is the variation of apparent gravity accounted for?

If the earth could be caused to rotate on its axis in 8 hours instead of 24, what would be the gravity of a 10 lb. weight at the equator? (Earth's radius, 21×10^6 feet.)

2. Explain, in general, what is meant by a "length modulus" of elasticity.

State the general law for the velocity of a pulse of any sort in an elastic medium, or in a piece of elastic material of any shape.

Find the velocity of a wave of compression in water.

(The compressibility of water is $1/22,000$ per atmo., and the specific gravity of mercury is 13.6.)

3. Prove the formula

$$P = T (1/R + 1/R'),$$

for a capillary surface, or for an egg-shaped boiler.

Find the bursting pressure for a cylindrical boiler 6 feet in diameter, with hemispherical ends, the thickness of the shell being half an inch, and the tenacity of the material 40,000 lbs. per square inch.

4. Explain how the column of mercury in a barometer tube is supported. Find the corrected barometric height, when the observed height is 758 mm., the temperature of the mercury being 15°C . (Expansion of mercury per 1°C . is $1/5550$.)

A small iron ball is introduced below the open end of a straight barometer tube and allowed to float up inside. Will the height of the column be affected? Give reasons for your answer.

5. With what weight must a wire 2 feet long, and weighing 26 lbs. per nautical mile (6000 feet), be stretched between two points in order that its fundamental note, when the string is plucked aside in the middle and let go, may be C , 256 vibrations per second?

6. Make careful diagrams to show the vibrations of air in an open organ pipe, and in a pipe closed at one end, when the pipes are sounding their lowest notes and their first and second harmonics.

7. Define the temperatures 0°C ., 100°C ., 27°C ., by means of the constant volume air thermometer.

Describe a practical instrument of this description.

What are the difficulties which prevent the use of the constant pressure air thermometer as a practical instrument?

Give a brief account of Regnault's investigation as to the "comparability" of mercury in glass thermometers.

8. A hole is cut in a lump of ice and a piece of lead, weighing 250 grammes, and at 87°C ., is dropped into the hole. Find how much ice is melted. (Specific heat of lead $1/30$.)

Define "specific heat," and "latent heat." Define also *unit quantity of heat*.

9. State Newton's law of cooling.

A small metal globe at 55°C . is hung in a room whose temperature is 15°C . and is found to fall 1.4° in temperature in the first minute. Find its temperature at the end of half an hour.

10. Contrast the vibrations which constitute sound with those which

constitute light, both as to the nature of the vibrations and as to period and wave length, giving numerical particulars. Describe the vibrations which constitute (1) plain polarized light, (2) circularly polarized light, (3) unpolarized light.

Define *plane of polarization*.

11. Define *potency* of a lens. On what does it depend? Show how to calculate the focal length of a lens from the curvatures of the lens surfaces and the refractive index of the transparent substance.

The radii of curvature of a thin double convex lens of glass are 10 and 12 ins. respectively, and the distance of the incident focus is 23 ins. Find the position of the conjugate focus. (Refractive index for glass $3/2$.)

Find the position of the conjugate focus for a double concave lens, with curvatures and incident focus as above, and explain the meaning of your answer.

12. Define specific inductive capacity of a dielectric. Describe Faraday's experiments for comparing the specific inductive capacities of various materials.

13. A length, L , of wire is made into a circular coil of mean radius k , and the coil is placed, vertically, in the plane of the magnetic meridian. A short magnet whose length is l , and of which the strength of the pole is m , is hung at the centre of the coil, free to turn in a horizontal plane.

Write down the expression for the moment of the couple which acts upon the magnet, due to a current, C , through the coil, the magnet being in the equilibrium position; and find the deflection of the magnet, the earth's horizontal magnetic force at the place being H .

14. Explain the following equations, expressing fundamental laws of electric currents: (1) $C = E/R$. (2) $Q = Ct$. (3) $W = C^2 Rt$.

Show how, in combination with two other laws, one expressing Coulomb's law of electrostatic force, and the other expressing Ampère's law of electromagnetic force, the *electrostatic*, and the *electromagnetic* systems of electric measurement are respectively determined.

CHEMISTRY—See p. 544.

ZOOLOGY—See p. 545.

BOTANY—See p. 544.

D.—DEPARTMENT OF HISTORY AND LAW.

HISTORY.

FIRST PAPER—THREE HOURS.

(Not more than EIGHT questions should be attempted.)

1. Draw a map showing the distribution of races in Scotland at the accession of Malcolm Canmore.

2. Illustrate the want of unity in England from the history of the Danish and Norman Conquests.

3. Discuss the true meaning of "feudalism." What amount of

feudalism can be traced in England before 1066, or in Scotland before the death of David I. ?

4. Trace the growth of the "Ancient League" between Scotland and France.

5. Illustrate, from the history both of England and of Scotland, the statement that the Church was, on the whole, more often in alliance with the Crown during the Middle Ages than against it.

6. Examine (1) the strength, (2) the faults, of the character of Edward I.

7. To what circumstances, other than the French wars, does the reign of Edward III. owe its importance ?

8. Compare and contrast the rise of parliamentary institutions in England and in Scotland.

9. On what allies could England principally count during the Hundred Years' War ?

10. What is meant by "the constitutional experiment" of the Lancastrian times ?

11. Draw an accurate map of the Border, marking the principal roads, castles, rivers, and towns within fifty miles each way.

12. What was the attitude of the Scottish kings and regents towards the dynastic struggles in England during the fifteenth century ?

SECOND PAPER—THREE HOURS.

1. Discuss the attitude taken up towards Scotland by Henry VII. and Henry VIII.

2. Illustrate from the history of the sixteenth and seventeenth centuries the chief religious and agrarian grievances of Ireland.

3. Account for the late start of England and her ultimate superiority in the race for colonial expansion.

4. Account for the comparative success of James I., and the failure of Charles I., in their ecclesiastical policy towards Scotland.

5. Explain carefully with a map, *either*

- (1) The Campaign of Newbury,
- or* (2) The Campaign of Inverlochy,
- or* (3) The Campaign of Marston Moor.

6. Show what forces and interests combined to bring about the Restoration in 1660 in England and Scotland.

7. To what cause is the rivalry between England and the United Provinces to be attributed ?

8. Discuss the power of the Crown over the Scots Parliament in the seventeenth century. What modifications took place at and before the Revolution of 1688 ?

9. Discuss the English Act of Settlement as a fair conclusion of outstanding questions.

10. Trace the origin and progress of the ideas of Free Trade in Great Britain.

11. Give some account of the ministerial changes between 1781 and 1785, and estimate their significance.

12. To what extent can the charge of neglecting her allies be brought against Great Britain in the great French war?

CONSTITUTIONAL LAW AND HISTORY—See p. 557.

ROMAN LAW—See Civil Law, p. 551.

PUBLIC LAW—See p. 554.

II. FOR THE DEGREE WITH HONOURS.

And for Snell Exhibition, April, 1899.

A.—GROUP OF CLASSICS.

LATIN TRANSLATION—THREE HOURS.

1. Translate:—

(a) Virg. *Aen.* XII. 368—382.

(b) Hor. *Sat.* II. 2. 23—37.

2. Translate the following two combinations:—

(a) Lucr. II. 973—984.

Plaut. *Mil. Glor.* II. 2. 1—10 (156—165).

(b) Catull. XXII. 4—21.

Prop. II. 3. 9—22.

3. Translate the *three* following passages:—

(a) Cic. *Phil.* V. c. 5. §§ 13 (*fin.*) 14.

(b) Liv. XXIII. 48.

(c) Tac. *Ann.* IV. 10.

4. Translate the following (unprescribed):—

SY. Nostin porticum apud macellum hac deorsum? *DE.* Quid ni noverim?

SY. Praeterito hac recta platea sursum: ubi eo veneris, Clivos deorsum vorsum est: hac te praecipitato: postea Est ad hanc manum sacellum: ibi angiportum propter est.

DE. Qua nam? *SY.* Illi ubi etiam caprificus magna est. *DE.* Novi. *SY.* Hac pergito.

DE. Id quidem angiportum non est pervium. *SY.* Verum hercle: vah, Censen hominem me esse? Erravi: in porticum rursum redi: Sane hac multo propius ibis et minor est erratio.

Scin Cratini huius ditis aedis? *DE.* Scio. *SY.* Ubi eas praeterieris,

Ad sinistram hac recta platea: ubi ad Dianae veneris, Ito ad dextram: prius quam ad portam venias, apud ipsum lacum Est pistrilla et exadvorsum fabrica: ibist. *DE.* Quid ibi facit?

SY. Lectulos in sole ilignis pedibus faciundos dedit.

DE. Ubi potetis vos: bene sane. Sed cesso ad eum pergere?

SY. I sane: ego te exercebo hodie, ut dignus es, silicernium.

Terent. *Adelphi* IV. 2. 34—48 (573—587).

LATIN PROSE.

Translate into Latin :—

THE DUKE OF MARLBOROUGH.

Our chief, whom England and all Europe, saving only the Frenchmen, worshipped almost, had this of the godlike in him—that he was impassible before victory, before danger, before defeat. Before the greatest obstacle or the most trivial ceremony; before a hundred thousand men drawn in battalia, or a peasant slaughtered at the door of his burning hovel;—he was always cold, calm, resolute, like fate. He performed a treason or a court-bow, he told a falsehood as black as Styx, as easily as he paid a compliment or spoke about the weather. He took a mistress, and left her; he betrayed his benefactor, and supported him, or would have murdered him, with the same calmness always, and having no more remorse than Clotho when she weaves the thread, or Lachesis when she cuts it. In the hour of battle I have heard the Prince of Savoy's officers say that the Prince became possessed with a sort of warlike fury: his eyes lighted up, he rushed hither and thither, raging: he shrieked curses and encouragement, yelling and harking his bloody war-dogs on, and himself always at the first of the hunt. Our Duke was as calm at the mouth of the cannon as at the door of a drawing-room. Perhaps he could not have been the great man he was had he had a heart either for love or hatred, or pity or fear, or regret or remorse. He achieved the highest deeds of daring, or deepest calculation of thought, as he performed the very meanest action of which a man is capable; told a lie, or cheated a fond woman, or robbed a poor beggar of a halfpenny, with a like awful serenity and equal capacity of the highest and lowest acts of our nature.

LATIN GENERAL PAPER—TWO HOURS.

1. Translate with notes explaining exact meaning, allusions, grammatical difficulties, or varieties of reading:

- (a) Virg. *Aen.* IX. 140—144.
- (b) Hor. *A. P.* 438—441.
- (c) Lucr. I. 469, 470.
- (d) Plant. *Mil. Glor.* IV. 3. 42—46 (1178—1182).
- (e) Catull. LXIII. 4, 5.
- (f) Prop. IV. 3. 59—62.
- (g) Cic. *Phil.* II. c. 19, § 48.
- (h) Liv. XXIII. 35.
- (i) Tac. *Ann.* I. 61.

2. Explain:

(a) The expressions *deferre ad Senatum*, *referre ad Senatum*, *centuria praerogativa*.

(b) The meaning in Latin literature of the terms *Nobiles*, *Optimates*, *Populares*.

3. Cepimus et tenerae primos aetatis honores,
Eque viris quondam pars tribus una fui.

To what office does Ovid refer? Write a note on the *Magistratus Minores* of ancient Rome.

4. Give the dates and provisions of the chief *Leges Agrariae*.
5. Describe the condition and government of the Roman provinces under the Empire.
6. What were the chief peculiarities connected with the Censorship?
7. Quote the lines of Catullus about Cicero, those of Propertius about the *Aeneid*, and the words in which Horace characterises the style of Virgil.

GREEK TRANSLATION—THREE HOURS.

1. Translate:—

- (a) Τῆς δ' ἐλελίχθη γυνίᾳ, χαμαὶ δέ οἱ ἔκπεσε κερκίς.
ἣ δ' αὔτις δρωήσιν ἔϋπλοκάμοισι μετηΐδα
“ Δεῦτε, δίω μοι ἔπεσθον, ἴδωμ' ὅτιν' ἔργα τέτυκται.
αἰδοίης ἐκνρῆς ὁπὸς ἔκλινον, ἐν δ' ἐμοὶ αὐτῇ
στήθεσι πάλλεται ἡτορ ἀνὰ στόμα, νέρθε δὲ γούνα
πήγνυνται· ἐγγὺς δὴ τι κακὸν Πριάμοιο τέκεσσιν.”—Hom. *Il.*

Discuss the form of the third line.

- (b) Ἐννέωροι γὰρ τοίγε καὶ ἐννεαπήχεες ἦσαν
εἶρος, ἀτὰρ μῆκός γε γενέσθην ἐννεόργηνοι.
οἳ ῥα καὶ ἀθανάτοισιν ἀπειλήτην ἐν Ὀλύμπῳ
φνλόπιδα στήσειν πολνᾶϊκος πολέμοιο.—Hom. *Od.*

Who are referred to? Discuss ἐννέωροι.

- (c) Ἐμοὶ δ' ἀγὼν ὅδ' οἷκ ἀφρόντιστος πάλαι
νείκης παλαιῆς ἦλθε, σὺν χρόνῳ γε μῆν'
ἔσθηκα δ' ἐνθ' ἔπαις ἐπ' ἐξειργασμένοις.
οὔτῳ δ' ἔπραξα, καὶ τὰδ' οἷκ ἀρνέσομαι,
ὥς μήτε φεύγειν μήτ' ἀμύνεσθαι μόνον.—Aesch. *Ag.*

Discuss the reading of the second line.

- (d) Ὅμοιον ὥστε ποντίαις
οἶδμα δυσπνόοις ὅταν
Θρηῖσαισιν ἔρεβος ἵφalon ἐπιδράμη πρῶαῖς,
κνλίνδει βνσσόθεν κελαινὰν
θίνα καὶ δυσάνεμον,
στονῶ βρέμοισι δ' ἀντιπλήγες ἀκταί.—Soph. *Ant.*

Explain δυσάνεμον.

2. Translate:—

- (a) Τί σοι δοκεῖ; μύραινά γ' εἴτ' ἔχιδν' ἔφν
σίγηεν θιγοῖσ' ὅν ἄλλον οὐ δεδηγμένοι

τόλμης ἕκατι κακδίκον φρονήματος.
 τί νιν προσείπω, κἄν τίχῳ μάλ' εἰστομῶν ;
 ἄγρευμα θηρός, ἢ νεκροῦ ποδένδυτον
 ὁροῖτης κατασκήνωμα ; δίκτυον μὲν οἶν.
 ἄρκυν δ' ἂν εἴποις καὶ ποδιστῆρας πέπλους.—AESCH. *Cho.*

To whom or what does νιν refer?

(b) ΞΑ. Διόνυνσε τοίνυν. ΔΙ. τοῦτ' ἔθ' ἦττον θατέρων.

ΞΑ. ἴθ' ἦπερ ἔρχει. δεῦρο δεῦρ', ὦ δέσποτα.

ΔΙ. τί δ' ἔστι ; ΞΑ. θάρρει· πάντ' ἀγαθὰ πεπράγαμεν,
 ἔξεστί θ' ὥσπερ Ἡγέλοχος ἡμῖν λέγειν·
 ἐκ κυμάτων γὰρ αἰθις αὖ γαλήν ὀρώ.—ARIST. *Ranae.*

Explain (a) ἴθ' ἦπερ ἔρχει (b) the allusion in the last line.

3. Translate :—

(a) Εἰ γὰρ διαβέβληνται μὲν πανταχῇ τῷ σώματι, αὐτὴν δὲ καθ' αὐτὴν ἐπιθυμοῦσι τὴν ψυχὴν ἔχειν, τούτων δὲ γιγνομένων εἰ φοβοῖντο καὶ ἀγανακτοῖεν, οὐ πολλὴ ἂν ἀλογία εἴη, εἰ μὴ ἄσμενοι ἐκείσε ἴοιεν, οἳ ἀφικομένοις ἐλπίς ἐστίν οὐ διὰ βίου ἥρων τυχεῖν· ἥρων δὲ φρονήσεως· ᾧ τε διεβέβληντο, τοίτων ἀπηλλάχθαι ξυνόντος αὐτοῖς ;—PLAT. *Phaed.*

(b) Ἐπὶ μὲν οἶν τῆς κομφοδίας ἡδὴ τοῦτο δῆλον γέγονεν· σινιστήσαντες γὰρ τὸν μῦθον διὰ τῶν εἰκότων οὔτω τὰ τυχόντα ὀνόματα ὑποτιθέασιν, καὶ οὐχ ὥσπερ ἱαμβοποιοὶ περὶ τὸν καθ' ἕκαστον ποιοῦσιν.—ARIST. *Poet.*

Should you propose any emendation?

(c) Ἡξίουν τε αὐτοὺς μὴ τειχίζειν, ἀλλὰ καὶ τῶν ἔξω Πελοποννήσου μᾶλλον ὅσοις εἰστήκει ξυγκαθελεῖν μετὰ σφῶν τοὺς περιβόλους, τὸ μὲν βουλευόμενον καὶ ὑποπτον τῆς γνώμης οὐ δηλοῦντες ἐς τοὺς Ἀθηναίους, ὥς δὲ τοῦ βαρβάρου, εἰ αἰθις ἐπέλθοι, οὐκ ἂν ἔχοντος ἀπ' ἐχίρου ποθέν, ὥσπερ νῦν ἐκ τῶν Θηβῶν, ὁρμᾶσθαι.

THUC. I.

Had Sparta in any instance carried out this proposed policy?

4. Translate :—

Εἰ δὲ βουλευόμενος ἐγὼ προσάγειν τοὺς πρέσβεις ὥμην δεῖν, τοῦτό μου διαβάλλει. ἀλλὰ τί ἐχρῆν με ποιεῖν ; μὴ προσάγειν γραψαί τοὺς ἐπὶ τοῦθ' ἦκοντας, ἢ ὑμῖν διαλεχθῶσιν ; ἢ θέαν μὴ κατανεῖμαι τὸν ἀρχιτέκτονα αὐτοῖς κελεῖσθαι ; ἀλλ' ἐν τοῖν δυοῖν ὀβολοῖν ἐθεώρουν ἂν, εἰ μὴ τοῦτ' ἐγράφη. τὰ συμφέροντα τῆς πόλεως ἔδει με φυλάττειν, τὰ δ' ὅλα, ὥσπερ οὔτοι, πεπρακέναι ;

DEM. *De Cor.*

What embassy is referred to?

GREEK PROSE AND UNPREPARED TRANSLATION.

THREE HOURS.

1. Translate into Greek :—

D. Pre-eminent amongst the many atrocious things which our friend has brought forward in this essay of his, was the statement that he made about the use of the trumpet, and about a man's giving his principal attention not to doing a thing, but to getting it talked about.

M. Oh, it was only his fun.

E. It was not his fun. It was his most earnest earnestness. Suppose a mountebank, on entering a town, were to make known his coming confidentially, in choice English, to the principal inhabitants only—would anybody buy his wares, I ask?

D. I did not know that you were speaking entirely of mountebanks.

E. Not entirely; but take horsemanship, in which something laborious and adroit is accomplished. Would anybody come to see the Circus, if the Circus people entered the town in a quiet, easy, gentlemanly manner, instead of with kettle-drums and trumpets, seated in state, on a car with sixteen piebald horses, which stops up the way, and compels everybody to be aware that the unrivalled performers, 'who very lately had the honour of attending Her Majesty at Windsor,' have just arrived 'to stay one night only' in the little town of Sleepy Scandal?

2. Translate into English :—

XO. Ἀναξ Πελασγῶν, αἰόλ' ἀνθρώπων κακά.
 πόνου δ' ἴδοις ἂν οὐδαμοῦ ταῖτον πετερόν.
 ἐπεὶ τίς ἠΐχαι τήνδ' ἀνέλπιστον φηγῆν,
 κέλσειν ἐς Ἀργος κῆδος ἐγγενὲς τὸ πρίν,
 ἔχθει μεταπτοιούσαν εὐναίων γάμων;

BA. τί φῆς ἰκνεῖσθαι τῶνδ' ἀγωνίων θεῶν,
 λεικοστέφεις ἔχουσα νεοδρέπτους κλάδους;

XO. ὥς μὴ γένωμαι ὁμῶς Αἰγύπτου γένει.

BA. πότερα κατ' ἔχθραν, ἢ τὸ μὴ θέμις λέγεις;

XO. τίς δ' ἂν φίλους ὄνοιτο τοῖς κεκτημένους;

BA. σθέριος μὲν οὕτως μείζον αὔξεται βροτοῖς.

XO. καὶ διςτυχόντων γ' εὐμαρὴς ἀπαλλαγὴ.

BA. πῶς οἶν πρὸς ἡμᾶς εὐσεβὴς ἐγὼ πέλω;

XO. αἰτοῦσι μὴ 'κδῶς παισὶν Αἰγύπτου πάλιν.

BA. βαρέα σί γ' εἶπας, πόλεμον ἄρασθαι νέον.

XO. ἀλλ' ἡ δίκη γε ξυμμάχων ἱπερστατεῖ.

BA. εἴπερ γ' ἀπ' ἀρχῆς πραγμάτων κοινωνὸς ἦν.

XO. αἰδοῦ σὸν πρίμηναν πόλεος ὧδ' ἐστεμμένην.

BA. πέφρικα λείσσω τὰσδ' ἔδρας κατασκίους.

XO. βαρὺς γε μέντοι Ζηνὸς ἱκεσίου κότος.

GREEK GENERAL PAPER—TWO HOURS.

1. 'It remains for critics to enquire into the sources of the *Iliad* and the *Odyssey*, just as historians have enquired into the sources of Diodorus or of Thucydides.' Illustrate this.

2. Discuss the philosophical and historical value of Thucydides' introduction to his history.

3. What motives does Antigone in various parts of Sophocles' tragedy allege to have influenced her? (Discuss, if necessary, questions of text.)

4. 'Textual critics should remember that the diction and even the grammar of every good dramatist varies with the various characters which he represents.' Illustrate this from Aeschylus.

5. Ἐπεὶ νῆ τὸν κύνα, ὡς ἐγῶμαι, πάλαι ἂν ταῦτα τὰ νεῦρά τε καὶ τὰ ὀστά ἢ περὶ Μέγαρα ἢ Βοιωτοὺς ἦν, εἰ μὴ δικαιότερον ἔμην [ταύτη μένειν]. What argument does this illustrate? Against whom does Socrates direct it?

6. 'The *Frogs* is the work of a careless and unfair *Poet*; the *Poetics* is the work of a very careful and unbiassed *Scientist*. The theories of the two about poetry almost never agree, and on all deep points, the poet is right.' Criticise the above.

7. Write a note on the Peace of Antalcidas as compared with the Peace of Cimon or Callias.

8. What were the sources of the revenues of Athens under Pericles?

9. Explain the terms—*pediment*, *metope*, *Caryatides*, *Arrhephoroe*, *episode*.

10. Write a note on the meaning and etymology of the following Homeric epithets:—*ἄδινός*, *αἰγίλιψ*, *ἀλφειστής*, *ἀργειφόντης*, *κηώεις*, *μέροπες*, *ῥοδοδάκτυλος*, *τανηλεγέος*, *τερπικέρανος*, *τηλύγετος*.

11. Give a scheme of the metre of a Greek *scolion*, of *dochmiacs*, *anapaestic metres* and *syncopated iambic metres*.

B.—GROUP OF MENTAL PHILOSOPHY.

LOGIC.

FIRST PAPER—THREE HOURS.

1. Explain Aristotle's view regarding First Principles.

Compare Plato's Doctrine of Reminiscence with Aristotle's explanation of the way in which we come to know First Principles.

2. Compare in some detail the views on the nature, components, and functions of Soul advanced by Plato and Aristotle respectively.

3. Explain the Aristotelian distinctions between *Matter* and *Form*, *Potential* and *Actual*, and illustrate them from the definition given of the Soul.

4. Trace the doctrine of Universals from Socrates to Aristotle,

bringing out the essential elements in Aristotle's criticism of the Ideal theory.

5. At what points does Aristotle's theory of the logical processes seem specially to depend on his general metaphysical or cosmological conception? Consider, as illustrating this relation, the views of Aristotle, Bacon, and Mill on the Nature of Induction.

6. Define the sense you would assign to the term 'Uniformity of Nature,' and consider how far such 'Uniformity' is a postulate assumed in the process by which Knowledge is formed and a principle required for the proof of what is regarded as Knowledge.

SECOND PAPER—THREE HOURS.

(Not more than SIX questions to be taken.)

1. Discuss the grounds, psychological and epistemological, for distinguishing Thought from Perception.

2. "A judgment is nothing but the mode of bringing given cognitions under the objective unity of apperception" (*Kant*). Explain and discuss this view.

3. "The conception of a noumenon is therefore not the conception of an object, but merely a problematical notion inseparably connected with the limitation of our sensibility." Explain more fully the grounds and implications of this view.

4. Examine critically Kant's distinction between the Empirical and the intelligible character.

5. Give a brief historical account of the ways in which the term Apperception has been employed, and discuss the psychological character of the process referred to.

6. Contrast the ways in which Kant and Lotze deal with space. Explain Lotze's doctrine of local signs.

7. Define the points in Kant's theory of Experience which seem most to have influenced the development of Hegel's doctrine.

MORAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

1. 'No consistent theory of the relation of the intelligible and the sensible is given either by Plato or Aristotle.' Discuss this statement.

2. Discuss the view that Aristotle has justified once and for all the democratic element in political life, and contrast Aristotle's attitude towards democracy with Plato's.

3. Examine Spinoza's conception of freedom as a passionless intelligence.

4. Does Spinoza try to *prove* the existence of God? If so, what is the nature and value of the proof? Compare his view in this respect with that of Descartes.

5. What does Spinoza mean by action from "free necessity"? How far does his view anticipate Hegel's?

6. Examine the view of Plato that the State is an educational institution.

7. 'Aristotle's conception of the moral end rested on a psychological basis, Kant's on a metaphysical.' Explain and examine this view.

SECOND PAPER—THREE HOURS.

1. Examine Green's statement that Nature implies something other than itself as the condition of its being what it is.

2. 'The gradual determination of the idea of the good goes along with the growth of the conviction that the true good is the common good.' Discuss this doctrine.

3. 'Kant's theory of Knowledge rests in the last resort on an empirical basis, his theory of morals on an intuitional basis.' Examine this view.

4. 'The movement from Kant to Hegel consists in a transition from Epistemology to Ontology.' Explain this statement, and consider the validity of the transition.

5. What is the relation of morality to religion?

6. "It is not true that conduct dictated by instinct is arbitrary. Nothing is arbitrary." Discuss this statement and show what ethical consequences flow from it.

7. "If in some distant planet lying were as essential to human welfare as truthfulness is in this world, falsehood might there be a cardinal virtue." Criticise this view, and especially show the ethical presuppositions on which it rests.

LOGIC AND MORAL PHILOSOPHY.

1. 'There can be no absolute moral laws, because the moral ideal, from which alone moral laws spring, cannot be adequately conceived.' Discuss this statement.

2. 'On the theory of Hegel, as on that of Heraclitus, Everything is in flux, and there is nothing either false or true, good or evil.' Examine this view.

3. "The merits and the defects of recent Hedonistic theories arise, in the main, from the uncritical application of Biological Evolution to moral matters." Explain and examine this doctrine.

4. Discuss the position which the *Critique of Judgment* holds in reference to the ethical system of Kant.

5. Characterise Kant's Idealism, and discuss its significance for philosophical speculation.

6. Are there grounds for the distinction drawn between *a priori* and *a posteriori* truths? Discuss fully.

7. Compare the ideal of theoretical speculation with that involved in practical activity.

8. Define, with reference to recent controversies, what you regard as the point of view and method of Psychology.

*C.—GROUP OF MATHEMATICS AND NATURAL
PHILOSOPHY.*

MATHEMATICS.

FIRST PAPER—THREE HOURS.

1. If from any point U in the tangent at P to a parabola, UQ is drawn parallel to the axis and cuts the curve in Q , show that $PQ^2 = 4SP \cdot UQ$, S being the focus.

Tangents are drawn to a parabola from any point T . The diameters through their points of contact meet any secant PQ which passes through T in M and N . Prove that

$$TM^2 = TN^2 = PT \cdot TQ.$$

2. Show that the orthogonal projection of a circle on a plane is an ellipse.

The polar of a point P with respect to an ellipse cuts the major axis in M ; if PN be drawn perpendicular to the major axis, show that

$$CM \cdot CN = CA^2.$$

3. Find the equation of the normal to the parabola $y^2 = 4ax$ in the form $y = mx - 2am - am^3$. Express the co-ordinates of any point on the curve in terms of m , stating its geometrical meaning.

P and Q are two points on the parabola $y^2 = 4ax$; if PQ subtends a right angle at the vertex, the normals at P and Q will intersect on the parabola

$$y^2 = 16a(x - 6a).$$

4. Prove that the lines given by the equation $Ax^2 + 2Hxy + By^2 = 0$ will be conjugate diameters of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ if $\{a^2A + b^2B = 0$.

A tangent to the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ meets the circle $x^2 + y^2 = a^2 + b^2$ in P and Q ; show that the lines joining P and Q to the origin are conjugate diameters of the ellipse.

5. Show that the equations of two non-intersecting straight lines may be written in the form

$$\frac{x}{\pm \cos \alpha} = \frac{y}{\sin \alpha} = \frac{z \mp c}{0}$$

where 2α is the inclination of the two lines and $2c$ the shortest distance between them.

If a line move so as to intersect the lines represented by these equations in A and B and pass through the curve $yz = k^2$, $x = 0$, the locus of the middle point of AB will be a curve of the third degree two of whose asymptotes are parallel to the given lines.

6. Find the condition that the section of the surface $\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$ by the plane $lx + my + nz = p$ may be a parabola. Interpret the condition geometrically.

If the planes of two parabolic sections pass through the fixed point (α, β, γ) and be perpendicular, their line of intersection will be a generating line of the cone

$$(b^2 - c^2)(x - \alpha)^2 + (a^2 - c^2)(y - \beta)^2 + (a^2 - b^2)(z - \gamma)^2 = 0.$$

7. Find the equations of the principal normal at any point of a tortuous curve and investigate the formula for the radius of circular curvature.

A curve is drawn on the surface of a parabolic cylinder so as to cut all the generating lines at the same angle α . Show that the radius of circular curvature at any point of this curve is $\frac{\rho}{\sin^2 \alpha}$, where ρ is the radius of curvature of the principal section of the cylinder through the point. Prove also that the radius of torsion at the point is $\frac{2\rho}{\sin 2\alpha}$.

8. Find the n th differential coefficient of $\frac{x^2 + 7x + 11}{x^2 + 5x + 6}$; and show that

$$\frac{d^n}{dx^n} \log(1 + x^2) = 2(-1)^{n-1} \frac{n-1}{(1+x^2)^{\frac{n}{2}}} \cos n(\cot^{-1} x).$$

9. Trace the curve

$$x^5 + y^5 = x^2y - y^4.$$

10. Find the expression

$$\sin x = x \left(1 - \frac{x^2}{\pi^2}\right) \left(1 - \frac{x^2}{2^2\pi^2}\right) \left(1 - \frac{x^2}{3^2\pi^2}\right) \dots$$

for $\sin x$ as an infinite product (x being real).

Deduce that

$$\cot x = \frac{1}{x} + 2x \sum_{n=1}^{\infty} \frac{1}{x^2 - n^2\pi^2}.$$

11. In a spherical triangle ABC prove that

$$\cos b \cos C = \cot a \sin b - \cot A \sin C.$$

If the internal and external bisectors of the angle A of a spherical triangle ABC meet BC in B', C' , prove that

$$2 \sin a \sin b \sin c = \sin(b+c) \sin(b-c) \tan B' C'.$$

12. Find the radius of the small circle inscribed in a spherical triangle ABC ; show how to find the radii of the circles inscribed in its colunar triangles.

If R, R_1, R_2, R_3 be the radii of the circumscribed circles, and r, r_1, r_2, r_3 those of the inscribed circles of a spherical triangle and its colunar triangles respectively, prove that

$$\tan R \tan R_1 + \tan R_2 \tan R_3 = \cot r \cot r_1 + \cot r_2 \cot r_3.$$

13. Show that Δ^{-1} or Σ of a function can be connected with the integral and the successive differential coefficients of the function by developing $\frac{t}{e^t - 1}$.

Solve

$$(E - a)(E - b)^2 u_x = c + dx + ex.$$

SECOND PAPER—THREE HOURS.

1. If a curve of the n^{th} degree have n asymptotes, no two of which are parallel, given by the equation $u_n = 0$, show that the equation of the curve is of the form

$$u_n + u_{n-2} = 0.$$

Show that if the line at infinity touch the curve, the number of asymptotes is diminished by two.

Form the equation to the cubic curve whose asymptotes are $y = x - 2$ and a line parallel to the axis of x . The first asymptote cuts the curve in the point $(\frac{8}{3}, \frac{2}{3})$; the curve approaches the other at one extremity only, but from both sides of it; the axis of y is an inflexional tangent at the origin.

2. Prove that if the axis of y touch a curve at the origin, the radius of curvature at that point is the $\text{Lt} \frac{y^2}{2x}$.

Show that at the origin, two branches of the curve $3x^2 - 5xy^2 = 2(x - y)^4$ touch; prove that they have their curvatures opposite and in the ratio 1:6.

3. Find the envelope of the family of curves given by the equation

$$f(x, y, a) = 0.$$

Two equal circles, centres O and O' , touch at O ; POP' is drawn to meet the circles in P and P' . If PP' be the axis of a Bernoulli's Lemniscate

$$(r^2 = c^2 \cos 2\theta),$$

show that the envelope of the lemniscates corresponding to the different positions of PP' is the curve

$$r^{\frac{2}{3}} = d^{\frac{2}{3}} \cos \frac{2}{3}\theta,$$

O being the pole, CC' the initial line, d a diameter of either circle.

Show roughly the shape of this curve.

4. If $x = u \cosh v$, $y = u \sinh v$, change the variables from x, y to u, v in the equation

$$\frac{\partial^2 z}{\partial x^2} - \frac{\partial^2 z}{\partial y^2} = 0.$$

5. Find

$$\int_0^\theta \frac{d\theta}{(1 + e \cos \theta)^n}, \quad e < 1,$$

by the substitution

$$\frac{1 - e}{1 + e} \tan^2 \frac{\theta}{2} = \tan^2 \frac{\phi}{2}.$$

Discuss the geometrical meaning of this transformation when $n = 2$.

Evaluate

$$\int_0^\pi \frac{x dx}{(1 + \sin x \cos 2x)^2}.$$

6. Point out the difference in the methods of finding the following integrals and work out the second:

$$(i.) \int \frac{dx}{(x^2 - 5x + 6)\sqrt{2x^2 - 3x + 5}}.$$

$$(ii.) \int \frac{(x - 5) dx}{(7x^2 - 22x + 19)\sqrt{5x^2 - 16x + 14}}.$$

7. Prove that

$$(i.) \int_0^{\infty} \frac{\cos mx}{1+x^2} dx = \frac{\pi}{2} e^{-m} \text{ if } m \text{ positive, but} \\ = \frac{\pi}{2} e^{+m} \text{ if } m \text{ negative.}$$

$$(ii.) \int_0^{\frac{\pi}{2}} \sin x \log (\sin x) dx = \log 2 - 1.$$

$$(iii.) \int_0^1 \frac{1+x^4}{1+x^6} dx = \frac{\pi}{3}.$$

8. Define the Gamma Function.

Show that
$$B(m, n) = \frac{\Gamma(m) \Gamma(n)}{\Gamma(m+n)}.$$

Deduce that
$$\Gamma(n) \Gamma(1-n) = \frac{\pi}{\sin n\pi}.$$

Show that
$$\int_0^1 \frac{x^{m-1} dx}{\sqrt{\log \frac{1}{x}}} = \sqrt{\frac{\pi}{m}}.$$

9. Prove that the area of a closed curve is represented by $\frac{1}{2} \int (x dy - y dx)$ taken round the curve.

By putting $y = mx$ in the equation $x^3 + y^3 = 3axy$, show that the curve which it represents is unicursal; express x, y as functions of m and hence prove that the area of the loop of the curve is $\frac{3a^2}{2}$.

10. Show that
$$f\left(\frac{d}{dx}\right) \left\{ e^{ax} \phi(x) \right\} = e^{ax} f\left(\frac{d}{dx} + a\right) \phi(x),$$

where $f(z)$ denotes any function of z capable of expansion in integral powers of z positive or negative.

Integrate
$$\frac{d^3 y}{dx^3} - 4 \frac{d^2 y}{dx^2} + 5 \frac{dy}{dx} - 2y = e^{2x} + x \cos x.$$

11. Integrate

(i.)
$$\frac{d^2 y}{dx^2} - x^2 \frac{dy}{dx} + xy = ay \quad (\text{if } a = 0, y = x \text{ satisfies}).$$

(ii.)
$$xz \frac{\partial z}{\partial x} + yz \frac{\partial z}{\partial y} = xy.$$

(iii.)
$$(y + 2xy + x^3) dx + (x^2 + x - y^2) dy = 0.$$

12. Show by differentiation, or otherwise, that

$$r = \int_0^{\frac{x}{2\sqrt{\kappa t}}} e^{-\lambda^2} d\lambda$$

satisfies the equation

$$\frac{\partial r}{\partial t} = \kappa \frac{\partial^2 r}{\partial x^2}.$$

Hence find a solution of the equation to satisfy the conditions :

- (i.) $v = V_1$ for $x = 0$;
- (ii.) $v = V_2$ for $t = 0$, $x > 0$;
- (iii.) $v = V_2$ for t finite and x infinite ;
- (iv.) $v = V_1$ for t infinite and x finite.

x is supposed to be positive.

13. Assuming that $f(x)$, for values of x between 0 and π can be represented by a series of cosines of multiples of x , obtain the series.

Show that
$$f(x) = \frac{\pi}{8} - \frac{2}{\pi} \left\{ \frac{\cos x}{1^2} - \frac{2 \cos 2x}{2^2} + \frac{\cos 3x}{3^2} + \text{etc.} \right\},$$

where $f(x) = 0$ from $x = 0$ to $x = \frac{\pi}{2}$,

and $f(x) = x - \frac{\pi}{2}$ from $x = \frac{\pi}{2}$ to $x = \pi$.

What function of x does the series represent for values of x between $-\pi$ and π ?

Deduce from the series that $\frac{\pi^2}{8} = \frac{1}{1^2} + \frac{1}{3^2} + \frac{1}{5^2} + \text{etc.}$

NATURAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

1. State and prove Pappus' Theorems.

Find the centre of inertia of the area bounded by the cardioid $r = a(1 + \cos \theta)$ and prove that the volume of the surface generated by the revolution of the curve about its double tangent is $\frac{1}{4}a^3\pi^2$.

(The perpendicular from the origin on the double tangent is $\frac{a}{4}$.)

2. Find an expression for the moment of inertia of a body about a given axis, when the moment of inertia about a parallel axis through the centre of inertia is known.

Prove that the moment of inertia of a right, regular hexagonal prism about an edge parallel to the axis is $\frac{1}{12}Ma^2$, where M is the mass of the prism and a a side of the base.

Show that the moment of inertia of the prism about all lines through the axis in a plane perpendicular to it is constant.

3. A rigid body oscillates about a fixed horizontal axis under the action of gravity. Show that the time of a small oscillation depends on the distance of the centre of gravity from the axis and on the radius of gyration of the body about the axis.

Find the length of the equivalent simple pendulum for a solid hemisphere oscillating about a tangent line to its surface in the plane of the base.

Show that the time of a small oscillation is an absolute minimum if the axis be parallel to the base and distant $a\sqrt{\frac{8g}{3\pi}}$ from the centre of gravity, a being the radius of the hemisphere.

4. A sphere rolls down the outside of an inverted bowl, formed by the revolution of a cycloid about its axis. If there be no slipping, show that the motion is determined by the equation

$$(b + 4a \cos \phi)^2 \dot{\phi}^2 = \frac{2}{5} g \sin^2 \frac{\phi}{2} \left(b + 4a \cos^2 \frac{\phi}{2} \right),$$

where b is the radius of the sphere, a the radius of the generating circle of the cycloid, and ϕ the angle made by the normal at the point of contact of the sphere and the bowl, with the vertical.

If $b = 2a$, the sphere will leave the surface when $\cos \phi = \frac{5}{6}$.

5. Write down Lagrange's Equations for the motion of a system whose position is defined by certain independent co-ordinates. Explain carefully the meanings of the various terms in the equations.

Two particles are attached together by a fine thread of length b ; the one is oscillating on the lower part of a vertical circle, radius a , the other below the circle and in its plane. Find an equation giving the periods of the small oscillations and show that the sum of their squares is approximately equal to the square of the period of a simple pendulum length $(a + b)$.

6. A particle is acted on by a central attraction P ; show that the differential equation of the orbit described is

$$\frac{d^2 u}{d\theta^2} + u - \frac{P}{h^2 u^2} = 0.$$

Find the attraction to the pole under which the particle will describe the cardioid $r = a(1 + \cos \theta)$.

7. A particle describes an elliptic orbit about a centre of attraction at the focus. Prove that the velocity at a point distant r from the focus is given by the equation

$$v^2 = \mu \left(\frac{2}{r} - \frac{1}{a} \right).$$

If when at the end of the minor axis of the ellipse, the particle receive a small impulse towards the centre equal to $\frac{1}{n}$ th of its momentum, show that the eccentricity e is increased or diminished by $\frac{1}{n} \sqrt{1 - e^2}$ according to the direction of motion at the instant.

8. OA is the line of greatest slope on an inclined plane and makes an angle β with the horizontal. OB is drawn on the inclined plane making an angle θ with OA . If a particle be projected from O with velocity u , in a vertical plane through OB and in that direction which will give the greatest range on OB , show that it will strike the inclined plane at a distance $\frac{u^2}{g(1 + \cos \theta \sin \beta)}$ from O . Hence prove that the area com-

manded by a gun on a hillside is $\frac{\pi u^4}{g^2 \cos^3 \beta}$, where β is the inclination of the hill to the horizon and u the velocity with which a shot is projected.

9. Investigate the value of the potential and the attraction on unit mass at any point produced by a spherical shell whose density varies inversely as the cube of the distance from a given external point.

10. Find the attraction of a uniform thin circular plate on a particle placed at any point of its axis.

The density at any point of a solid sphere is proportional to the distance from a fixed diametral plane. Find the attraction of the sphere on a particle placed at the extremity of the radius perpendicular to this plane.

11. Establish the equations of motion of a fluid in the Eulerian form. Simplify these equations for the case of irrotational motion.

Prove that if the motion be steady and irrotational

$$\int \frac{dp}{\rho} + V + \frac{1}{2}q^2 = A.$$

12. Prove the hydrodynamical equation

$$\frac{D}{Dt} \int_A^P (u dx + v dy + w dz) = \left[- \int_A^P \frac{dp}{\rho} - V - \frac{1}{2}q^2 \right]_A^P.$$

Deduce from this equation that if the density is a function of the pressure and the forces form a conservative system, the circulation round any closed circuit moving with the fluid is constant.

13. The space between two concentric spheres is filled with liquid which is at rest. The outer sphere, radius a , is moved with velocity u and the inner sphere, radius b , with velocity v in the same direction. Prove that the velocity-potential of the initial motion is

$$\phi = \left\{ \frac{a^3 u - b^3 v}{a^3 - b^3} r + \frac{(u - v) a^3 b^3}{2r^2 (a^3 - b^3)} \right\} \cos \theta.$$

Deduce the measure of the impulse applied to the inner sphere in order to start it with velocity v .

SECOND PAPER—THREE HOURS.

1. Describe in detail Kelvin's Quadrant Electrometer. Work out the theory of it. Explain how different degrees of sensitiveness can be obtained (a) with the inductor, (b) without the inductor.

2. Discuss fully the relative advantages of the different methods of observing the electricity of the atmosphere. Does electrification of air close to the earth's surface influence the observed electric force?

What general conclusions have been come to regarding the magnitude and sign of atmospheric electricity at different times of the day? Discuss the theory you think most consonant with the phenomena observed.

3. Find the electric density at any point of an insulated conducting sphere (radius a) charged with a quantity Q (either positive, or negative, or zero) of electricity, and placed with its centre at a given distance, r , from an electric point, O , possessing m units of electricity.

4. Define Specific Inductive Capacity of a dielectric. Describe and explain any three methods by which to compare the electrostatic capacities of two condensers. Discuss the effect of electric absorption on each of the methods you describe.

5. Prove that for a round rod the torsional rigidity is equal to the rigidity modulus multiplied by the moment of inertia of the cross

section round the axis of the rod. Hence explain how the rigidity modulus of a material in the form of a rod can be determined.

6. Show that when a bar of isotropic material is acted on by equal and opposite forces it experiences a lateral lineal contraction equal to $(3k-2n)/2(3k+n)$ of the longitudinal dilatation.

Explain fully what k and n mean.

7. Equal and opposite forces P are applied to one pair of opposite faces of a unit cube of given material so as to produce a dilatation e , in the direction in which they are applied. Lateral contraction in any direction is prevented by forces P' . Show that

$$P/e = k + \frac{1}{3}n, \text{ and, } P'/e = k - \frac{2}{3}n.$$

8. Show that when a gas experiences condensation or dilatation, without gain or loss of heat across the walls of the containing vessel,

$$\frac{t'}{t} = \left(\frac{V'}{V} \right)^{k-1} = \left(\frac{P'}{P} \right)^{\frac{k-1}{k}},$$

where P , V , and t are the initial pressure, volume, and temperature, of the gas; and P' , V' , and t' are the altered pressure, volume, and temperature of the gas; and k is the ratio of the thermal capacity, pressure constant, to the thermal capacity, volume constant, of the gas. How has k been experimentally determined?

9. Investigate the equations of thermal conduction within a homogeneous solid. Write down the boundary conditions for a finite solid left to cool in an enclosure of given uniform temperature.

10. Investigate the equation of continuity for an incompressible fluid. State the case in respect to which it agrees with Fourier's equation for the conduction of heat when there is no change of temperature.

11. Write out the dynamical equations for the motion of an incompressible fluid; and reduce them to the simplified form for the case in which the motion is irrotational.

12. State the approximate law of efflux of water through a short smooth open pipe at a depth h below the free level surface of a large cistern. Explain the conditions required for a good approximation to accuracy.

13. Work out fully an expression by means of which differences of heights can be determined by a barometer; and show that the difference of the logarithms of the heights of the barometer multiplied by 60,000 gives approximately the difference of the heights in feet.

D.—GROUP OF ENGLISH (LANGUAGE, LITERATURE, AND BRITISH HISTORY).

FIRST PAPER—Two Hours.

ANGLO-SAXON.

(Answer the FIRST TWO questions first.)

1. Translate:

(a) Sweet's *Anglo-Saxon Reader*, III., ll. 68—88.

Give the principal parts of 'ēode' and 'licgeað.'

(b) Sweet's *Anglo-Saxon Reader*, VII., ll. 16—30.

Explain the construction of 'þritiga sum þāra monna.' Give the principal parts of 'gefeah' and 'salde.'

(c) Sweet's *Anglo-Saxon Reader*, XXVI., ll. 58—69.

(d) Sweet's *Anglo-Saxon Reader*, XXIII., ll. 267—284.

2. Translate the following, with short notes, especially on questions of mood or case:

(a) For ðȳ was suīðe wel gecueden ðæt hit wære ātiefred, for ðæm ðonne mon smēað on his mōde ymb hwelc eorðlic ðing, ðonne dēð hē suelce hē hit ámete ond ātiefre on his heortan, ond suā twēolice ond unfæsðlice hē ātiefreð ðæs ðinges onlicnesse on his mōde ðe hē ðonne ymb smēað.

(b) and swīðost ealle hys spēda hȳ forspendað mid þan langan legere þæs dēadan mannes inne, and þæs þe hȳ be þæm wegum ālecgað, þe ðā fremdan tō ærnað, and nīmað.

(c) 'Wuton āgīfan ðæm esne his wif, for ðæm hē hī hæfð geearnad mid his hearpunga.' Bebēad him ðā ðæt hē geara wisse, ðæt hē hine nāfre under bæc ne besāwe, siððan hē ðonanweard wære, ond sæde, gif hē hine under bæc besāwe, ðæt hē sceolde forlætan ðæt wif.

(d) Eodon him þā tōgēanes, Gode þancodon,
ðrȳðlic þegna hēap, þēodnes gefēgon,
þæs þe hī hyne gesundne gesēon mōston.

(e) nū ūre þēoden līð,
eorl on eorðan, ūs is eallum þearf
þæt ūre æghwylc oþerne bylde
wigan tō wīge, þā hwīle þe hē wæpen mæge
habban and healdan, heardne mēce,
gār and gōd swurd.

(f) Gif mīn bearn werā brūcan willað,
hȳ bēoð þȳ gesundran and þȳ sigefæstran,
heortum þȳ hwætran and þȳ hygebliþran,
ferþe þȳ frōdran; habbaþ frēonda þȳ mā.

3. What are the chief differences between Anglo Saxon in the earliest known forms and the Anglo-Saxon of the eleventh century?

4. Write a note on the feeling for Nature shown in Anglo-Saxon poetry.

SECOND PAPER—TWO HOURS.

MIDDLE ENGLISH.

(Answer the FIRST question first.)

1. Translate :

(a) Morris and Skeat's *Specimens of Early English*, Part I., II., ll. 192—202.

(b) Morris and Skeat's *Specimens of Early English*, Part I., XIII., ll. 69—85.

(c) Morris and Skeat's *Specimens of Early English*, Part I., XVIII., ll. 545—564.

(d) Morris and Skeat's *Specimens of Early English*, Part II., II., Psalm CIII. (CIV.), ll. 1—18.

(e) Morris and Skeat's *Specimens of Early English*, Part II., XV., Passus V., ll. 114—135.

2. Write notes on any orthographical or grammatical peculiarities in the above passages.

3. Tabulate the chief distinctive characteristics of the Northern and Southern dialects, illustrating, where possible, from the above passages.

4. Write down the exact title of the *Piers Plowman* poem, and explain it. Write a note upon the metre. Write a note on Layamon's *Brut*.

THIRD PAPER.

HISTORY OF ENGLISH LITERATURE FROM 1350
TO 1660.

I.

(Answer about FIVE questions.)

1. "Langland is an Anglo-Saxon : there would be nothing very surprising in the discovery that Chaucer was Norman-French." Discuss.

2. Write a critical note on any one of the *Canterbury Tales*, and on any one of the following :—*The Book of the Duchesse*, *The House of Fame*, and *Troilus and Criseyde*.

3. Illustrate from the English Literature of the Fifteenth Century the statement that success in prose-writing is soonest gained in the form of narrative.

4. Describe a Miracle-Play. Is it true that "the Modern Drama did not in any way arise out of the Miracle-Plays"?

5. "James I. and Henryson may fairly be called Chaucerians : not so Dunbar." Discuss.

6. Mention with dates the more important events in the History of Europe which contributed to the diffusion of culture and the widening of the intellectual horizon between 1450 and 1520.

7. What new verse forms do we owe to Wyatt and Surrey? Estimate the value of Surrey's services to English poetry.

8. "There is no reason in the custom of dating a literary period from the accession of Elizabeth." Discuss.

9. Write notes on *Sir Gawayne and the Green Knight*, *Why come ye not to Court?* *The Ship of Fools*, *The Thrissil and the Rois*, *The Governour*, *The Scholemaster*.

FOURTH PAPER.

HISTORY OF ENGLISH LITERATURE FROM 1350 TO 1660.

II.

(Answer about FIVE questions.)

1. Write an appreciation of the *Faery Queen*, and show by internal evidence that it is a late sixteenth century poem.

2. Make a list of sonnet-sequences published in England between 1580 and 1600. Comment upon their general characteristics.

3. Discuss the advantages and disadvantages of the influence of Classical Literature on English prose Literature in the time of Shakespeare.

4. What changes in Elizabethan Drama can you illustrate by a comparison of Marlowe with Fletcher or Webster?

5. Write an estimate of Hooker, or of Bacon, as a man of letters.

6. Arrange the principal lyrists between 1600 and 1660 in groups, and mention some salient characteristics of each group.

7. "For all his intense individuality Milton is thoroughly representative of his time." Discuss, with special reference to *Paradise Lost*.

8. Write a full note upon Milton as a metrical artist, treating separately his early and his later poems.

9. Who were the authors, and what were the subjects, of the following:—The Mirror for Magistrates, Friar Bacon and Friar Bungay, Histriomastix, Oceana, De Motu Sanguinis, Pseudodoxia Epidemica, De Corpore Politico?

THIRD PAPER (ALTERNATIVE).

HISTORY OF ENGLISH LITERATURE FROM 1660 TO 1899.

I.

(Answer about FIVE questions.)

1. Compare Dryden and Pope as satirists.

2. Compare Addison and Steele as essayists.

3. Sketch the history of the English Drama from 1660 to 1720.
4. Discuss the gains and losses of English prose style from 1660 to 1740.
5. Give a short account of the controversy with which the *Battle of the Books* was connected. Is this work an adequate exponent of the genius of Swift?
6. Give some account of works which may be included under the title "Eighteenth Century Novel of Sentiment."
7. Discuss the treatment of Nature in our poetry from Thomson to Burns (inclusive).
8. "There are few signs in Johnson of the transition to the Romantic Age." Discuss.
9. Write short notes on the Rehersal, The Holy War, A Treatise of Civil Government, The Fable of the Bees, The History of John Bull, The Pleasures of Imagination.

FOURTH PAPER (ALTERNATIVE.)

HISTORY OF ENGLISH LITERATURE FROM 1660
TO 1899.

II.

(Answer about FIVE questions.)

1. "The poetry of Wordsworth's Age is essentially lyrical." Discuss.
2. Characterise four of our principal historians from Gibbon to the present time.
3. Compare Fielding and Thackeray as novelists.
4. Estimate the influence of the French Revolution, or of the scientific movement, upon English Literature.
5. Compare Burns and Scott as exponents of Scottish character.
6. Characterise the humour of any three famous English books written respectively between 1750 and 1800, between 1800 and 1850, and between 1850 and 1899.
7. "Tennyson and Browning are not greater poets than some of their immediate predecessors, but they have done more completely what was in them to do." Discuss.
8. What is meant by *Weltschmerz*? Where is it apparent in nineteenth century English poetry?
9. Who were the authors, and what are the subjects of the following: Thalaba, Epipsyehidion, Lamia, Andrea del Sarto, A Musical Instrument, The Ancient Sage, Thyrsis, The House of Life, Sigurd the Volsung?

FIFTH PAPER. SHAKESPEARE.

I.

(*Answer about FIVE questions.*)

1. What references to Shakespeare are found in the prose of Greene, Chettle, Meres, Ben Jonson? Are there covert criticisms on him in Jonson's plays?

2. What versions of the *Romeo and Juliet* story were known to Shakespeare? How did he modify it?

3. Discuss either (a) the view that *All's Well that Ends Well* is the play mentioned under the title *Love's Labour Won*; or (b) the question whether *Richard II.* preceded or followed *Richard III.*

4. Write notes on: (a) Shakespeare's quotations from Marlowe; (b) Scotch and Irish characters in Shakespeare; (c) the difference between the Petrarchan and the Shakespearean forms of the sonnet.

5. "Shakespeare is more entirely himself in his early comedies than in his early histories." Discuss.

6. What is meant by "Tragic irony"? Refer to examples of it in Shakespeare.

7. Discuss the question of Shakespeare's share in *Timon of Athens* and *Henry VIII.*

8. Show from internal evidence that *Coriolanus* is a later play than *Julius Caesar*.

9. Give an account of the First Folio. How do you explain the divergence of its text from that of early Quartos?

SIXTH PAPER. SHAKESPEARE.

II.

(*Answer about FIVE questions.*)

1. "The characters in Shakespeare's last plays do not greatly affect the action. They are elemental, ideal, symbolical." Discuss.

2. Write a note upon the supernatural beings of Shakespeare's plays.

3. "The *Merry Wives* is Shakespeare's one prosaic play, the *Comedy of Errors* his one farce." Discuss.

4. Are there any tragedies of Shakespeare in which it cannot be said that there is one leading character?

5. Discuss one of the following statements: (a) "Romeo is Hamlet in love"; (b) "*Macbeth* is as much a tragedy of irresolution as *Hamlet*."

6. "In *King Lear* Shakespeare presents us with unconventional human nature, its edges unblurred, its passions unrestrained, its original features unmodified; and he has placed it amid rude and savage surroundings in a pagan country." Discuss and expand.

7. "In a sense English history, from the deposition of Richard II. to the death of Richard III., forms for Shakespeare one great dramatic action." Discuss.

8. Write an estimate of *Troilus and Cressida* or *Antony and Cleopatra*.

9. "In Shakespeare's comedies the central figure is generally a woman, but the best comic figures are mostly men." Discuss.

SEVENTH, EIGHTH, NINTH PAPERS.

On selected authors, the following is a specimen :

THACKERAY.

(Answer about FIVE questions.)

1. Trace in the writings of Thackeray the influence of (a) his Anglo-Indian parentage ; (b) his artistic tendencies ; (c) his life as a journalist in London and Paris.

2. Thackeray has been called a cynic, and has been said to write about snobs because he was one. Examine these views and give your own.

3. Discuss the opinion that *Esmond* is Thackeray's masterpiece.

4. What in your opinion is (a) the most dramatic, (b) the most humorous, (c) the most pathetic, passage in Thackeray's writings? Give reasons.

5. Analyse any two of the following characters: Barry Lyndon, Pendennis, Ethel Newcome, Beatrix, Laura Bell.

6. Write notes on Dennis Hoggarty, Frank Berry, Fred Bayham, Mirobolant, Rummun Loll, Bedwin Sands, Miss Wirt, Dorothea von Speck.

7. Quote what you know of your favourite Ballad.

8. What did Thackeray teach as a moralist?

9. Give a chronological list of Thackeray's writings. Do the novels after *The Newcomes* show a falling-off?

10. Give instances of Scotch and Irish characters in Thackeray's books, and criticise his treatment of them.

TENTH PAPER—TWO HOURS.

BRITISH HISTORY, 1603-1714.

I.

1. Contrast the political attitude of the high church party in England under Charles I. with their attitude under James II.

2. Account for the comparative success of James I.'s ecclesiastical policy in Scotland.

3. To what causes may the Irish rebellion of 1641 be attributed, and how did it affect English and Scottish politics.

4. Sketch with a map the campaign leading to the battle of Naseby.
5. Discuss the causes of the failure of the Protectorate to satisfy the aspirations of the three kingdoms.
6. Give an account of the Darien Scheme. How did it affect the question of the Union with Scotland?
7. Trace the rise of the "political pamphleteer" as a force in England from 1660-1714.
8. Discuss the leading provisions of the Bill of Rights and the Act of Settlement.

ELEVENTH PAPER—TWO HOURS.

BRITISH HISTORY, 1603-1714.

II.

1. "Jurisdictional power in the Church there ought to be none at all." Give a summary of the arguments advanced by Milton to support this contention.

2. Comment briefly upon the following passages, and explain their context:

(i.) The prelates, as they would have it thought, are the only mauls of schism. Forsooth if they be put down, a deluge of innumerable sects will follow; we shall be all Brownists, Familists, Anabaptists. For the word Puritan seems to be quashed, and all that heretofore were counted such are now Brownists.

(ii.) So that prelacy, if she will seek to close up divisions in the Church, must be forced to dissolve and unmake her own pyramidal figure, which she affirms to be of such uniting power, whereas, indeed, it is the most dividing and schismatical form that geometricians know of.

(iii.) And so much I find both in our own and foreign story, that dukes, earls, and marquises were at first not hereditary, not empty and vain titles, but names of trust and office, and with the office ceasing, as induces me to be of opinion that every worthy man in Parliament (for the word baron imports no more) might for the public good be thought a fit peer and judge of the king, without regard to petty caveats and circumstances.

(iv.) But this I doubt not to affirm, that the Presbyterians, who now so much condemn deposing, were the men themselves that deposed the king, and cannot, with all their shifting and relapsing, wash off the guiltiness from their own hands.

3. Give Milton's refutation of these propositions:

(a) The king hath as good right to his crown and dignity as any man to his inheritance.

(b) Kings are accountable to none but God.

4. The chief characters in *Hudibras* represent the two main sections into which the Parliamentary party was divided, and as such roundly rail at each other's failings. Expand and illustrate this statement.

5. Explain the allusions in the following passages :

- (i.) Are these the fruits o' th' Protestation,
The Prototype of Reformation,
Which all the Saints, and some, since Martyrs,
Wore in their hats like wedding garters, .
When 'twas resolved by either House,
Six Members' quarrel to espouse?
- (ii.) Presbytery does but translate
The Papacy to a free state,
A Commonwealth of Popery.
- (iii.) Was not the cause at first begun
With perjury and carried on?
Did not our worthies of the House,
Before they broke the peace, break vows?
For having freed us first from both
The allegiance and Supremacy oath,
Did they not next compel the nation
To take, and break the Protestation?
To swear, and after to recant
The solemn League and Covenant?
To take the Engagement and disclaim it,
Enforced by those who first did frame it?
Did they not swear to live and die
With Essex, and straight laid him by?
Did they not swear with express words
To prop and back the House of Lords?
And after turned out the whole Houseful
Of Peers, as dangerous and unuseful?
So Cromwell, with deep oaths and vows,
Swore all the Commons out o' the House.

6. (i.) Restless, unfixed in principles and place,
In power unpleased, impatient of disgrace.
(ii.) The statesman we abhor, but praise the judge.
(iii.) Resolved to ruin or to rule the state,
To compass this the triple bond he broke.
(iv.) A beardless chief, a rebel ere a man,
So young his hatred to his Prince began.

Discuss the justice of these allusions to Shaftesbury.

7. Explain the allusions in the following passages :

- (i.) They who, when Saul was dead, without a blow
Made foolish Ishbosheth the crown forego ;
Who banished David did from Hebron bring,
And with a general shout proclaimed him king.
- (ii.) Egypt and Tyrus intercept your trade,
And Jebusites your sacred rights invade.
- (iii.) Wise Issachar, his wealthy western friend.
- (iv.) The Polish Medal bears the prize alone.

8. What causes does Swift assign for the neglect of sea power during the War of the Spanish Succession, and what results does he attribute to this neglect?

9. Comment briefly upon the following passages :

(i.) The great traders in money were wholly devoted to the Whigs, who had first raised them.

(ii.) This resolution against any peace without Spain is a new incident, grafted upon the original quarrel by the intrigues of a party among us.

(iii.) To have a prince of the Austrian family on the throne of Spain is undoubtedly more desirable than one of the house of Bourbon ; but to have the Empire and Spanish monarchy united in the same person is a dreadful consideration, and directly opposite to that wise principle on which the eighth article of the alliance is founded.

(iv.) Those who are so violently against any peace without Spain being restored to the house of Austria have not, I believe, cast their eye upon a cloud gathering in the north, which we have helped to raise, and may quickly break in a storm upon our heads.

TENTH PAPER (ALTERNATIVE)—TWO HOURS.

I. BRITISH HISTORY, 1714-1815.

1. Trace the influence of the Hanoverian connection upon British history under the two first Georges.

2. Separate carefully the English from the Scottish elements of support upon which the Jacobites relied in 1715 and after.

3. Sketch the conditions of Irish political life after 1715, and narrate the course of the struggle for the independence of the Irish Parliament.

4. To what extent can it be maintained that the loss of America was compensated for by the conquest of India and the establishment or conquest of new colonies ?

5. Estimate the influence of London on public opinion throughout the reign of George III.

6. What were the main objectives of the British fleet during the great war with France ?

7. Discuss the attitude of the younger Pitt towards (1) Catholic emancipation, (2) Addington's ministry.

8. Explain and criticise the policy of the "Orders in Council."

ELEVENTH PAPER (ALTERNATIVE)—TWO HOURS.

II. BRITISH HISTORY, 1714-1815.

1. Account for the comparative failure of Burke (*a*) as a politician, (*b*) as a debater.

2. Summarise and illustrate from the speech on American Taxation the principal points in the relation between England and her colonies up to 1764.

3. Comment on the following passages :

(1) I am not one of those who think the people are never in the wrong.

(2) In this piece appeared the first dawning of the new system : there first appeared the idea of separating the court from the administration.

(3) The generality of people do feel a good deal mortified when they compare the wants of the court with its expenses. They do not behold the cause of this distress as any part of the apparatus of royal magnificence.

(4) Impeachment, that great guardian of the purity of the Constitution, is in danger of being lost, even the idea of it.

(5) "*Idem sentire de republica*" was with them a principal ground of friendship and attachment.

(6) These wise men, for such I must call Lord Sunderland, Lord Godolphin, Lord Somers, and Lord Marlborough . . .

(7) The Act of 1767 which grants this tea duty sets forth in its preamble that it was expedient to raise a revenue in America for the support of the civil government there, as well as for purposes still more extensive.

(8) I come to rescue that noble lord out of the hands of those he calls his friends.

(9) Do you forget that in the very last year you stood on the verge of general bankruptcy.

(10) Your right to give a monopoly to the East India Company, your right to lay heavy duties on French brandy are not disputed in England.

(11) If the principle of the Declaratory Act was not good, the principle we are contending for this day is monstrous.

(12) There are many young members of this House who never saw that prodigy Charles Townshend.

(13) This backwardness (to contribute) was, I am told, the case of Pennsylvania for some short time towards the beginning of the last war.

4. Examine and criticise Burke's view as to the *Imperial* character of the British Parliament.

5. Give an account of the circumstance under which the *Reflexions on the French Revolution* was written. Who was the "Gentleman in Paris"?

6. How far is Burke's comparison between the circumstances of the British Revolution in 1688 with that of France in 1789 a fair one?

7. Comment on the following passages :

(1) On the 4th of November last Dr. Richard Pirie . . . preached at the dissenting meeting-house of the Old Jewry . . . a very extraordinary and miscellaneous sermon.

(2) After I had read over the list of persons and descriptions elected into the *Tiers Etat* nothing which they afterwards did could appear astonishing.

(3) One set is for destroying the civil power through the ecclesiastical, another for demolishing the ecclesiastical through the civil.

(4) The noblesse paid the capitation : they also paid a land-tax called the twentieth penny to the height of sometimes three, sometimes four shillings in the pound.

(5) A king circumstanced as the present, if he is totally stupefied by his misfortunes . . . never can be fit for the office.

(6) The people of Lyons, it seems, have refused lately to pay taxes. Why should they not? What lawful authority is there left to exact them?

(7) Mr. Necker was obliged (I believe for a considerable part in the market of London) to buy gold and silver for the mint.

8. Can you gather that there was during the French Revolution any party which would desire to establish institutions similar to those of Great Britain?

E.—GROUP OF MODERN LANGUAGES.

FRENCH LANGUAGE AND LITERATURE.

FIRST PAPER—THREE HOURS.

1. Translate into English :

Une après-midi délicieuse qui n'aurait jamais dû finir ! Une de ces heures d'or qui se détachent encore après vingt-quatre ans, lumineuse comme au premier jour, sur le fond grisaille de la vie. Et voyez combien illogique et perverse est notre triste nature humaine ! Aujourd'hui encore, je ne saurais songer à cette sieste sous la tente, sans regret et sans nostalgie, mais, là-bas, il faut bien que je l'avoue, là-bas, je regrettais Paris. Oui ! je regrettais Paris, que ma santé fort compromise par cinq ans de noviciat littéraire m'avait obligé de quitter brusquement ; je regrettais Paris, pour les choses aimées que j'y laissais, pour ses brumes, pour son gaz, pour ses journaux, ses livres nouveaux, pour les discussions au café, le soir, ou sous le péristyle des théâtres, pour cette belle fièvre d'art et ce perpétuel enthousiasme qui ne m'apparaissaient alors que par leurs côtés sincères ; je le regrettais surtout pour ma pièce—ma première pièce !—dont la réception au théâtre de l'Odéon m'avait été annoncée le jour même de mon départ. Certes le paysage que je contemplais était beau et son cadre d'une singulière poésie ; mais j'aurais échangé volontiers l'Algérie et l'Atlas, Bonalem et ses amis, le bleu du ciel, le blanc des marabouts et le rose des lauriers-roses contre la grise colonnade de l'Odéon . . .

ALPHONSE DAUDET, *Trente ans de Paris*.

2. Traduire en français :

ELEGY WRITTEN IN A COUNTRY CHURCH-YARD.

The curfew tolls the knell of parting day,
The lowing herd wind slowly o'er the lea,
The plowman homeward plods his weary way,
And leaves the world to darkness and to me.

Now fades the glimmering landscape on the sight,
And all the air a solemn stillness holds,
Save where the beetle wheels his droning flight,
And drowsy tinklings lull the distant folds :

Save that from yonder ivy-mantled tow'r
 The moping owl does to the moon complain
 Of such as, wand'ring near her secret bow'r,
 Molest her ancient solitary reign.

Beneath those rugged elms, that yew-tree's shade,
 Where heaves the turf in many a mould'ring heap,
 Each in his narrow cell for ever laid,
 The rude Forefathers of the hamlet sleep.

The breezy call of incense-breathing Morn,
 The swallow twitt'ring from the straw-built shed,
 The cock's shrill clarion, or the echoing horn,
 No more shall rouse them from their lowly bed.

THOMAS GRAY.

ET,

Rabelais is a most wonderful writer. Pantagruel is the Reason; Panurge the Understanding—the pollarded man, the man with every faculty except the reason. I scarcely know an example more illustrative of the distinction between the two. Rabelais had no mode of speaking the truth in those days but in such a form as this; as it was, he was indebted to the king's protection for his life. Some of the commentators talk about his book being all political; there are contemporary politics in it, of course, but the real scope is much higher and more philosophical. It is in vain to look about for a hidden meaning in all that he has written; you will observe that, after any particularly deep thrust, as the Papimania for example, Rabelais, as if to break the blow and to appear unconscious of what he has done, writes a chapter or two of pure buffoonery. He every now and then flashes you a glimpse of a real face from his magic lantern, and then buries the whole scene in mist. The morality of the work is of the most refined and exalted kind; as for the manners, to be sure, I cannot say much.

COLERIDGE'S *Table Talk*.

SECOND PAPER—THREE HOURS.

1. Traduire en français moderne :

Li emperedre est repaidriez d'Espaigne,
 E vient ad Ais, al meillor siet de France ,
 Monte el palais, est venuz en la chambre.
 Es li venude Alde, une bele dame ;
 Ço dist al rei : “Oust Rodlanz li chataignes,
 Qui me juraç come sa per a prendre?”
 Charles en a e dolor e pesance,
 Ploret des uelz, tiret sa barbe blanche :
 “Suer, chiere amie, d'ome mort me demandes !
 Jo t'en donrai molt esforciet eschange,
 Çost Loðewis, meillor ne sai en France :

Il est mes filz de ma moillier la gente,
 E si tendraï mes marches e mon regne."
 Alde respont : " Cist moz mei est estranges !
 Ne placeï Dieu ne ses sainz ne ses angeles
 Apres Rodlant que jo vive remaigne !"
 Pert la color, chiet as piez Charlemagne ;
 Sempres est morte : Dieus ait merceit de l'aneme
 Francceis baron en plorent, si la plaignent.

2. Essay on French Grammar (in English or in French, additional marks being given for a good French style). Answer *one* of the two following questions :

(a) Les pronoms relatifs : origine, emploi en ancien français et en français moderne.

(b) Le développement de la langue française au XVII^e siècle.

3. Composition française. Traiter brièvement l'un des sujets suivants :

(a) L'œuvre de *la Pénélope*.

(b) L'hôtel de Rambouillet : son histoire, son influence sur le développement des lettres françaises au XVII^e siècle.

4. Essay, in English, on French History, *one* of the following questions :

(a) Henry IV. and Sully.

(b) Describe the state of the French people at the eve of the Revolution of 1789.

THIRD PAPER—THREE HOURS.

1. Composition française—Traiter *l'un* des sujets suivants :

(a) Balzac, peintre de caractères.

(b) Balzac et Walter Scott.

(c) Ste. Beuve, critique de Balzac.

(d) *Les chansons de geste* : *La chanson de Roland* : sa composition, son importance au point de vue de la littérature nationale en France.

2. Composition française—Traiter *l'un* des sujets suivants :

(a) *Cinq-Mars* d'Alfred de Vigny : sa place et son importance dans l'histoire du roman historique en France.

(b) Histoire des principales éditions des *Pensées* de Pascal.

GERMAN LANGUAGE AND LITERATURE.

FIRST PAPER—ONE HOUR AND THREE QUARTERS.

1. Translate into English :

Bist du vielleicht, mein Vers, zum Niedertauchen
 In dunkle Tiefen als ein Lot zu brauchen,
 Das aus der Nacht vom Urgrund aller Dinge
 Herauf aus Licht ein haftend Kornlein bringe ?
 Ein Sandkorn schon verrät ja, recht beschaut,

Welch Felsgebirg es weiland mit erbaut,
 Und Ahnung sieht erneut gen Himmel ragen,
 Was Luft gemürbt und Flut zu Malm zerschlagen.
 Zertrümmert scheint, zermalmt zu losen Staube,
 Des Menschenglückes Grundbaufels, der Glaube.
 Der scharfe Blick der Forschung der Natur
 Bekennt sich blind für eine Gottesspur.
 Doch ob auch sie von Kräften nur und Stoffen
 Zu reden weisz,—ein Schinen und ein Hoffen
 In unsrer Brust wird ewig mehr verlangen,
 Und giebt sich nie an ihren Spruch gefangen.

2. Translate into English :

Auch gegen das, was Aristoteles von der Unschicklichkeit eines ganz Lasterhaften zum tragischen Helden sagt, als dessen Unglück weder Mitleid noch Furcht erregen könne, bringt Corneille seine Läuterungen bei. Mitleid zwar, gesteht er zu, könne er nicht erregen, aber Furcht allerdings. Denn ob sich schon keiner von den Zuschauern der Laster desselben fähig glaube, und folglich auch desselben ganzes Unglück nicht zu befürchten habe : so könne doch ein jeder irgend eine jenen Lastern ähnliche Unvollkommenheit bei sich hegen, und durch die Furcht vor den zwar proportionierten, aber doch noch immer unglücklichen Folgen derselben gegen sie auf seiner Hut zu sein lernen. Doch dieses gründet sich auf den falschen Begriff, welchen Corneille von der Furcht und von der Reinigung der in der Tragödie zu erweckenden Leidenschaften hatte, und widerspricht sich selbst. Denn ich habe schon gezeigt, dass die Erregung des Mitleids von der Erregung der Furcht unzertrennlich ist, und dass der Bösewicht, wenn es möglich wäre, dass er unsere Furcht erregen könne, auch notwendig unser Mitleid erregen müsste. Da er aber dieses, wie Corneille selbst zugesteht, nicht kann : so kann er auch jenes nicht, und bleibt gänzlich ungeschickt, die Absicht der Tragödie erreichen zu helfen.

3. Translate into German :

We may look upon Lord Bacon as one who inspects a large and newly discovered land, laying plans for the development of its resources and the gathering of its riches. But the wealth lies deep down, and is only indicated by the first labours of the early pioneers. Newton, following these, unites their beginnings into a systematic exploration, and sinks the main shaft which reaches the lode of rich ore. He opens out the wealth of the mine and marks out the work for his followers. But many difficulties had to be overcome, much united effort and a vast organization of labour were required, in order to develop to the full Newton's scheme, and to raise the great treasure which he had reached. This was not done until the end of the last century, when Laplace collected, arranged, and condensed the work of French and English mathematicians and observers into a picture of the universe. A variety of circumstances had combined to make the French capital the place above all others where the means and materials for the development of the great work could be most easily procured.

4. Answer in English any FOUR of the following questions:

(a) Explain the general qualities of German vowels as to roundness and narrowness, and as to the terms *high*, *mid*, *low*, *back*, *mixt*, and *front*. Give ample examples.

(b) Explain the general qualities of the German consonants *f*, *s*, *r*, *h*, *p*, *t*, *k*, *n*, *g* as regards the terms *open*, *surd*, *sonant*, *throat*, *back*, *front*, *point*, *blade*, *point-divided*, *shut*, *point-nasal*, *lip-nasal*.

(c) Explain the term vowel-gradation in connection with the Aryan and more especially the Germanic languages. Give the complete Germanic vowel-gradation system.

(d) State Grimm's law as to the common Germanic and the High-German sound shiftings. In what respect is the operation of Grimm's law restricted by Verner's law? By what means have the results of the operation of Verner's law been wiped out to a large extent from German and English?

(e) Give the rules of the German accent in uncompound words and in compounded words.

(f) Give a sketch of the modern standard pronunciation of the German language.

SECOND PAPER—Two Hours.

TWELVE of the following questions to be answered. The answers to be given in German.

1. Geben Sie eine Schilderung der althochdeutschen alliterierenden Dichtungen.

2. Geben Sie ein Bild von der lateinischen Dichtung des deutschen Mittelalters.

3. Was wissen Sie über die Geschichte der Nibelungensage?

4. Entwerfen Sie eine Skizze der Geschichte der Artussage und Gralsage in der deutschen Literatur.

5. Erzählen Sie den Inhalt des Nibelungenliedes, des Gudrunliedes oder des Parzival Wolframs von Eschenbach.

6. Kennzeichnen Sie die Dichtung Hartmanns von Aue und Gottfrieds von Strassburg.

7. Schildern Sie das Leben und Dichten Walthers von der Vogelweide.

8. Schildern Sie die Anfänge des deutschen Dramas.

9. Was sind Luther's Verdienste um die deutsche Literatur?

10. Geben Sie ein Bild von Fischart's Werken.

11. Was verdankt das deutsche Drama Hans Sachs?

12. Erzählen Sie den Inhalt von Grimmelshausen's *Simplicissimus*.

13. Schildern Sie die Verdienste Gottscheds um die deutsche Literatur.

14. Beschreiben Sie Gellert's Leben und Wirken.

15. Worin besteht Klopstock's Bedeutung in den verschiedenen Epochen seiner Entwicklung?

16. Was schuldet die deutsche Literatur und insonderheit der deutsche Roman Wieland?

17. Zeichnen Sie Schiller's Entwicklung vom Don Carlos bis zum Wallenstein.

18. Besprechen Sie Schiller's Balladen einzeln.

19. Geben Sie ein Bild vom zweiten Teil von Goethe's Faust.

20. Schildern Sie die Romantische Schule.

21. Geben Sie ein Bild von Uhland.

22. Charakterisieren Sie Wilhelm Jordan als Dichter.

23. Was verdankt der deutsche Roman Gutzkow?

24. Entwerfen Sie eine Skizze von Heine's Dichten und Leben.

25. Worin besteht Gustav Freytag's und Friedrich Spielhagen's Bedeutung?

26. Ziehen Sie eine Parallele zwischen Gutzkow's und Laube's Leben und Schaffen.

27. Vergleichen Sie Herwegh und Geibel als Lyriker.

28. Was wissen Sie über Grillparzer?

29. Geben Sie einen Überblick über die Behandlung der Nibelungensage in der deutschen Dichtung des neunzehnten Jahrhunderts.

30. Geben Sie einen Überblick über die deutsch-österreichische Dichtung im neunzehnten Jahrhundert.

THIRD PAPER—ONE HOUR AND THREE QUARTERS.

1. Write an essay in German on Lessing's *Hamburgische Dramaturgie*, entering into the details of some of the plays criticised therein.

2. Answer in German any THREE of the following questions:

(a) Geben Sie eine Skizze der verschiedenen Theorien über den Ursprung des Rhythmus, vornehmlich von Karl Bücher's Theorie.

(b) Welches sind die Merkmale der deutschen Silbenwägung? Wodurch unterscheidet sich dieselbe von der lateinischen oder griechischen?

(c) Machen Sie die Grundgesetze des deutschen Versbaues namhaft.

(d) Was für verschiedene Arten von Versen kennt die deutsche Sprache, hinsichtlich des metrischen Baues wie hinsichtlich der Schmuckmittel?

(e) Geben Sie eine Geschichte des Stabreimes und des Endreimes im Deutschen.

3. Answer in English any THREE of the following questions:

(a) What do you know about the epistolary style in German?

(b) In what point do the constructions of adjectives like *begierig* or verbs like *entbinden* in Lessing's writings differ from modern German constructions?

(c) What are the most striking differences between English and German style?

(d) Translate the following eighteenth century phrases :

Sie fesselte ihn so, dasz er sie zur Kaiserin erklären müssen. Endlich erscheint ein weibliches Ding, flüchtig, unbedachtsam, niedlicher als wohlgestaltet. Auch mancher deutscher Fürst. Fast nichts zielt dahin ab. Das that Favart und sehr glücklich. Ihre Zweifel gegen die Grundlage des Marmontels. Das Lehrreiche besteht nicht in den blossen Factis. Eine Welt, deren Zufälligkeiten in einer andern Ordnung verbunden, aber doch eben so genau verbunden sind, als in dieser; eine Welt, in welcher Ursachen und Wirkungen zwar in einer andern Reihe folgen, aber doch zu eben der allgemeinen Wirkung des Guten abzwecken.

Point out the differences between these phrases and the modern German usage.

(e) What do you know about the New-High-German written language, its origin, its evolution, and its best modern representative writers?

FOURTH PAPER—TWO HOURS.

Answer in German TEN of the following questions.

1. Geben Sie ein Bild von Lessing's Jugend und Universitätsstudium.
2. Welche literarischen Strömungen beherrschten Lessing's Jugendzeit?
3. Was wissen Sie über Lessing's Jugenddramen "Damon," "Die alte Jungfer," "Der Misogyne," "Der junge Gelehrte," "Der Freigeist," "Die Juden"?
4. Was wissen Sie über Lessing's Fragmente "Giangir" und "Henzi"?
5. Auf welche literarischen Vorbilder stützt sich Lessing's "Miss Sarah Sampson"?
6. Was wissen Sie über Lessing's dramatische Experimente: "Das befreite Rom," "Virginia," "Kodrus," "Kleennis," "Philotas," "Das Horoskop," "Fatime," "Alcibiades"?
7. Kennzeichnen Sie Lessing's Fragment "Faust."
8. Geben Sie eine Kritik von Minna von Barnhelm.
9. Gegen welche Anschauungen richtet sich Lessing's "Laokoon"?
10. Geben Sie einen Abrisz der Theorie der Dichtung, welche im "Laokoon" enthalten ist.
11. Schildern Sie Lessing's Stellung zu Aristoteles, zur französischen Kunstkritik und zum französischen Drama in der Hamburgischen Dramaturgie.
12. Geben Sie eine Skizze der Entstehungsgeschichte von "Emilia Galotti," nebst einer Kritik des Dramas.
13. Erzählen Sie die Geschichte der Ringparabel des Nathan bis zu Lessing.
14. Erzählen Sie den Inhalt des Nathan und zeigen Sie, inwiefern er ein Tendenzdrama ist.
15. Was wissen Sie über die "Erziehung des Menschengeschlechtes" und die "Freimaurergespräche"?

16. Geben Sie ein Bild von Lessing's Weltanschauung.

17. Zeichnen Sie ein Bild von Heinrich von Kleist's Charakter und natürlichen Anlagen. Inwiefern hat die politische Zeitgeschichte Kleist's Leben beeinflusst?

18. Welche Umstände sind die Veranlassung zu Kleist's tragischem Ende gewesen?

19. Was wissen Sie über die Entstehung der "Familie Schrockenstein" und des "Robert Guiscard"?

20. Erzählen Sie den Inhalt von Kleist's "Amphitryon."

21. Inwiefern sind die beiden Dramen "Penthesilea" und "Kathchen von Heilbronn" Gegenstücke?

22. Erzählen Sie den Inhalt des "Zerbrochenen Kruges."

23. Geben Sie eine Kritik der "Hermannsschlacht."

24. Wie verhält sich der Inhalt des "Prinzen von Homburg" zur Geschichte?

25. Welche Stelle nimmt Michael Kohlhaas in der erzählenden deutschen Literatur ein?

III.—FOR DEGREE OF B.Sc.

A.—IN PURE SCIENCE.

FIRST EXAMINATION.

1. MATHEMATICS—See pp. 479—482.
2. NATURAL PHILOSOPHY—See pp. 482—486.
3. CHEMISTRY—See p. 544.
4. BOTANY—See p. 544.
5. ZOOLOGY—See p. 545.

FINAL EXAMINATION.

1. MATHEMATICS—See pp. 496—500.
2. NATURAL PHILOSOPHY—See pp. 500—503.

3. ASTRONOMY.

FIRST PAPER—THREE HOURS.

1. (a) In a diagram of the celestial sphere for latitude 60° at 23 hours sidereal time, enter the position of a comet of observed right-ascension $18h$, and declination 30° , and give the great circles in which this position is displaced if it be corrected (1) for atmospheric refraction, (2) for parallax, (3) for aberration, the date being the 21st April. Give the great circle in which the heliocentric position must lie.

(b) Why must apparent right-ascensions as affected by aberration and referred to the true vernal point be employed in the reductions of Transit observations made in the meridian?

(*c*) Prove geometrically that owing to aberration the apparent position of a star describes an ellipse round the true position.

2. (*a*) Draw a diagram of the celestial sphere at sidereal time $6h.$, and enter the position of four stars at polar distance $= 1^\circ$ and hour-angles $0h.$, $6h.$, $12h.$, $18h.$ Show in separate diagrams the effect on these positions of a sudden change of direction in space of the earth's axis of rotation, and the effect of a sudden change of the axis of rotation with reference to the earth's surface; the former to be equivalent to 180 years of precession, the latter to be 1° in the direction towards the place of observation.

(*b*) Draw a diagram of the celestial sphere which contains the mean ecliptic at time t_0 and the mean and true equator at time t ; point out the mean vernal points at time t_0 and t , the true vernal point at time t , the luni-solar precession, the general precession, and the nutation; and mention the causes of the changes of ecliptic and equator.

(*c*) Develop the formula which gives the mean place of a star referred to the equator at time t_2 from that at time t_1 , the formula of the yearly precession being given.

3. (*a*) Draw the spherical triangle which determines the sidereal time when the moon's centre sets on the local horizon, assuming as known the geocentric right-ascension and declination.

(*b*) Derive the correction to be applied to the longitude and latitude of a star which has an appreciable parallax, which reduces the position to the celestial sphere described round the sun.

(*c*) Estimate the right-ascension and declination of the moon at its first quarter in March.

4. (*a*) The latitude is wanted from observations of the sun made with a sextant. How would you proceed, and what reductions would you apply?

(*b*) Draw the spherical triangles which give the formula of reduction of observations made with the Transit instrument with regard to the errors of the instrument.

(*c*) The hour-angle of a star can be calculated from an observed zenith-distance, the latitude and the declination being known. Investigate in what great circle the zenith-distance ought to be measured so that the effect of an error of observation is a minimum.

(*d*) Prove that the brightness of an extended luminous object is not increased by the use of a telescope.

5. (*a*) Define the dynamical and astronomical mean sun, and with the aid of a diagram find the Greenwich mean time from local sidereal time and also from apparent solar time.

(*b*) Prove that the equation of time consists of two periodical quantities [do not develop these quantities].

6. (*a*) By means of the hodograph of a Keplerian ellipse find the linear velocity in the ellipse as a function of the radius vector and the major axis.

Give the velocity of a meteor which enters the earth's atmosphere in a parabolic orbit.

(b) From Kepler's third law derive the formula by which the constant of attraction can be calculated. Prove that the constants of attraction, which belong to the sun and a planet as central bodies, determine the mass of the planet in units of that of the sun, but that in the case of the earth the mass further depends on the solar parallax.

(c) Draw the elliptical orbit of the earth with reference to the vernal point for two epochs, present time and 5000 years hence, and mention how the beginning of the year must be defined so that the seasons occur in the same months.

SECOND PAPER—TWO HOURS.

1. Describe the course followed by Gauss in his method for the determination of the six elements of a planetary orbit from three observations, relating how the number of unknowns is reduced to only one by the introduction of two hypothetical quantities which can be determined approximately, and how the final values are obtained.

2. The luni-solar precession contains the term $an\int \cos N dt$, where a is a constant, n is the mean motion of the sun or the moon, and i and N denote the inclination and node of either the sun's or the moon's orbit. Show that this term gives rise to a large periodical term for the moon, and to a term depending on the square of the time for the sun. Why are different methods employed for the sun and moon?

The tropical period of the node of the lunar orbit is 18.6 years, and the node and inclination of the solar orbit are given by $i \sin N = gt$, $i \cos N = ht$, g and h being small quantities.

3. Derive Hamilton's canonic equations for generalised co-ordinates from Lagrange's equations.

4. Assuming the orbit of a planet to be in a plane, derive by means of Lagrange's equations the differential equations for the polar co-ordinates ρ and u ($x = \frac{\cos u}{\rho}$, $y = \frac{\sin u}{\rho}$).

5. Write out Hamilton's differential equation of the characteristic function S for the co-ordinates ρ and u of No. 4, and indicate how it can be integrated. Also say how the integrals of the canonic equations of this problem are obtained from S .

6. Find the curve of the orbit from $r^2 du = c dt$ and $\frac{1}{2} V^2 = \frac{K^2(1+m)}{r} + H$, u and r being the polar co-ordinates.

7. Derive Lagrange's formula of interpolation.

SCIENTIFIC CALCULATIONS—THREE WEEKS.

Reduce three observations (not given here) of the planet Eros, No. 433, to the *locus fictus*, and determine the elements of its orbit.

PRACTICAL WORK.

1. Observe the transit of stars with the Transit instrument, and determine the errors of the instrument and the correction of the sidereal clock.

2. Observe the altitudes of the sun near the meridian with a sextant, and calculate the geographical latitude.

4. PHYSIOLOGY.

I. GENERAL.

1. Give the distinguishing characteristics of albumin, serum globulin, gelatin, proteose and peptone. How could you show that these bodies vary as energy-producing substances?

2. Show by calculation the amount of energy liberated as mechanical work by the human heart in 24 hours.

3. Suppose a transverse section were made in the lumbar region, through one half of the spinal cord: state (1) what phenomena would immediately follow, and (2) what degenerations would probably occur. How could you trace such degenerations?

II. SPECIAL.

4. Describe fully the method of measuring the rate of propagation of a nervous impulse in a frog's nerve. Illustrate by diagram.

5. What are the chief electromotive phenomena shown by living muscle and nerve? How may these be demonstrated? How are these affected by excitory processes?

6. Describe the *macula lutea* in the retina; what phenomena happen in that portion of the retina? What mechanical arrangements are necessary to secure that an image of an external object, say a pencil, placed 3 feet from the eye, falls on the macula of each eye?

7. Suppose the middle C of a piano is sounded, what partial tones are related to this fundamental tone? How could you show that the ear is capable of analysing such a compound tone, and by what mechanism is the ear able to analyse?

B.—IN ENGINEERING.

a.—MATHEMATICS.

FIRST PAPER—THREE HOURS.

1. Define "the projection of a curve on a plane"; show that if a line touch a curve, its projection will touch the projection of the curve.

If two lines are parallel, their projections on the same plane are parallel.

2. If from any point U in the tangent at P to a parabola, UQ is drawn parallel to the axis and cuts the curve in Q , show that

$$PU^2 = 4SP \cdot UQ, \text{ } S \text{ being the focus.}$$

3. Show that $ax + by + c + \lambda(a'x + b'y + c') = 0$ is the equation of a line passing through the point of intersection of the lines $ax + by + c = 0$, and $a'x + b'y + c' = 0$.

Find the equation of the line passing through the point of intersection of the lines $3x + 5y - 6 = 0$, $6x + y - 3 = 0$, and perpendicular to the line joining the points $(1, -3)$, $(-2, 1)$.

4. Show that the equation

$$x^2 + y^2 + 2gx + 2fy + c = 0$$

represents a circle. Find its centre and radius.

Find the equations of the circles which touch the axes of co-ordinates and the line $y = k$.

5. Show that the co-ordinates of a point on the parabola $y^2 = 4ax$ may be written $am^2, -2am$. Give the geometrical meaning of m .

If P be the point $(am^2, -2am)$, Q the point $(an^2, -2an)$, show that the equation of PQ is $2x + (m+n)y + 2amn = 0$.

Deduce the equations of the tangent and normal at P .

6. OP, OD are conjugate semi-diameters of an ellipse whose centre is O . Show that, if the eccentric angle of P is ϕ , that of D will be

$$\phi \pm \frac{\pi}{2}.$$

If the equation of the ellipse be $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$, show that the equation of PD may be written

$$\frac{x(x_1 + x_2)}{a^2} + \frac{y(y_1 + y_2)}{b^2} = 1,$$

P being the point (x_1, y_1) and D the point (x_2, y_2) .

7. If $y = f(x)$, define the differential coefficient of y with respect to x and give its geometrical meaning.

Differentiate

$$(i.) \frac{\sqrt{x^2 - x + 1}}{x^2},$$

$$(ii.) a^x (\tan^{-1} ax)^2,$$

$$(iii.) \log \frac{1 + a \cos x}{1 - a \cos x}.$$

8. If

$$y = \log(x + \sqrt{1 + x^2}),$$

prove that

$$(1 + x^2) \frac{d^2 y}{dx^2} + x \frac{dy}{dx} = 0.$$

9. If the equation of a curve is given in the form $y = f(x)$, show that the radius of curvature at any point is the value of

$$\frac{\left\{ 1 + \left(\frac{dy}{dx} \right)^2 \right\}^{\frac{3}{2}}}{\frac{d^2 y}{dx^2}}$$

at that point.

Show that for the catenary $y = \frac{a}{2}(e^{\frac{x}{a}} + e^{-\frac{x}{a}})$ the radius of curvature at the point (x, y) is $\frac{y^2}{a}$. Prove that this equals the part of the normal intercepted between the curve and the axis of x .

10. Find the asymptotes of the curve given by the equation

$$xy^2 - x^3 + 2x^2 + 3y + x - 1 = 0.$$

Show that the points at a finite distance from the origin in which the asymptotes cut the curve lie on the line

$$3y + 2x - 1 = 0.$$

11. $ABCD$ is a rectangular ploughed field. A person wishes to go from A to C in the shortest possible time; he may walk across the field, or take the path along ABC ; but his rate of walking on the path is double his rate of walking on the field; show that he should make, through the field, for a point on BC distant $b - \frac{a}{\sqrt{3}}$ from C , a and b being the lengths of AB and BC respectively.

12. Integrate

$$\int \frac{dx}{\sqrt{x^2 + x + 1}}, \quad \int \frac{x^2 + x - 3}{x^2 - 3x + 2} dx, \quad \int e^x \sin x \cos x dx, \\ \int \sqrt{\frac{1+x}{1-x}} dx; \text{ and evaluate } \int_0^{\frac{\pi}{2}} \cos^5 x dx.$$

13. Show that for the curve $r = a(1 - \cos \theta)$, $\frac{ds}{d\theta} = 2a \sin \frac{\theta}{2}$, s being the length of the arc measured from a fixed point on the curve to the point (r, θ) . Hence prove that the length of the curve is $8a$.

14. Find the area cut off from the parabola $y^2 = 4ax$ by the line $y = 2x$.

SECOND PAPER—THREE HOURS.

1. Find four factors of the first degree in x for each of the following expressions:

- (i.) $4x^2 - (x^2 + 1 - a^2)^2$,
- (ii.) $(x^2 - x - 8)^2 - 7x(x^2 - x - 8) + 6x^2$,
- (iii.) $x^4 - 5x^3 + 5x^2 + 5x - 6$.

Hence find the values of x for which these expressions separately vanish.

2. Solve the equations:

- (i.) $\frac{4}{x} + \frac{3}{y} = 17, \quad \frac{3}{x} + \frac{2}{y} = 12$;
- (ii.) $6(x-1) \left(\frac{x^2}{x+1} + \frac{x+1}{x^2} \right) = 13(x-1)$;
- (iii.) $x^2 + y^2 + 3xy = 79, \quad x + y + 2xy = 38$.

3. If α, β be the roots of the equation $ax^2 + bx + c = 0$, show that $\alpha + \beta = -\frac{b}{a}$ and that $\alpha\beta = \frac{c}{a}$.

Deduce the condition that the roots be reciprocals.

Find by inspection the roots of the equation $x^2 - \frac{13}{6}x + 1 = 0$.

If α, β be the roots of $ax^2 + bx + c = 0$, form the quadratic equation whose roots are $\alpha(\alpha+1)$ and $\beta(\beta+1)$.

4. A watch is set to correct time at 3 o'clock. After $16\frac{3}{4}$ minutes it is observed that the hands coincide. How many seconds has the watch gained or lost by the time it indicates 4 o'clock?

5. If a series of numbers, beginning with a and ending with b be in Geometrical Progression, show that the product of any two equidistant from the beginning and end of the series is ab .

What is the exact meaning of the statement: "The sum of an infinite number of terms of the series $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$ etc. is 1"?

Find the common ratio of a Geometrical Progression continued to infinity in which any term is $\frac{1}{3}$ of the sum of all the terms that follow it.

6. Show that the total number of ways of arranging m black balls and n red balls in a row is $\frac{m+n}{m \ n}$.

7. Prove that

$$(1+x)^n = 1 + nx + \frac{n(n-1)}{2}x^2 + \dots + \frac{n(n-1)\dots(n-r+1)}{r}x^r + \dots + x^n$$

if n be a positive integer.

Find the term independent of x in the expansion of $\left(x^3 - \frac{1}{3x}\right)^n$; state the restriction on n that there may be such a term.

8. If x be so small that its cube and higher powers may be rejected, show that

$$\frac{\sqrt{1+x} + \sqrt{1-x}}{\sqrt[3]{1+x} + \sqrt[3]{1-x}} = 1 - \frac{x^2}{72} \text{ approximately.}$$

9. State and prove the exponential theorem.

Expand $\frac{1-x^2}{e^x}$ in a series of powers of x , showing the general term; give the coefficient of x^{19} .

10. Give definitions of $\sin A$, $\cos A$, $\tan A$ suitable for an angle of any magnitude, positive or negative.

Find from your definitions the sine, cosine and tangent of 96° .

Prove also from your definitions that $\sin A = \cos(A - 90^\circ)$.

11. Prove geometrically that

$$\cos 2A = \cos^2 A - \sin^2 A.$$

Establish the identities:

$$(i.) 1 + \cos \frac{\pi}{6} + \cos \frac{\pi}{3} = \cot \frac{\pi}{6} \left(\sin \frac{\pi}{6} + \sin \frac{\pi}{3} \right);$$

$$(ii.) \frac{\sin A + 2 \sin 3A + \sin 5A}{\cos A + 2 \cos 3A + \cos 5A} = \frac{4 \sin A - 3 \operatorname{cosec} A}{4 \cos A - 3 \sec A}.$$

12. Trace the changes in the magnitude and sign of $\frac{\sec^2 A}{2 - \sec^2 A}$ as A increases from 0° to 180° .

13. Prove that the complete solution of the equation $\cos \theta = \frac{1}{2}$ is

$$\theta = 2n\pi \pm \frac{\pi}{3}.$$

Solve the equations:

$$(i.) \cos 4\theta = \cos \theta,$$

$$(ii.) \sec^3 \theta - \tan^2 \theta = 1.$$

14. The mast of a ship is 51 feet high and consists of two portions jointed at a height of 25 feet from the deck. At what distance from it will the two parts subtend equal angles to an eye 5 feet above the deck?

15. Show how to solve a triangle given the angles and the perpendicular from a vertex to the opposite side.

In a triangle ABC , $A = 36^\circ 17'$, $B = 94^\circ 28'$, and the length of the perpendicular from C to AB is 56.34 ; find the lengths of the sides.

16. Express $2 + 2\sqrt{-3}$ in the form $r(\cos \theta + i \sin \theta)$ and find the three values of $(2 + 2\sqrt{-3})^{\frac{1}{3}}$.

b.--NATURAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

1. Prove that a system of forces acting on a rigid body can be reduced to a single force and a couple in a plane at right angles to the force.

What are the conditions that the system should be reducible to a force only, or to a couple only?

2. State the laws which give the magnitude and the direction of limiting friction. What is "the angle of limiting friction"?

A hemisphere rests between a vertical wall and a horizontal floor, μ and μ' being the coefficients of friction of the wall and floor respectively. Show that in the limiting position of equilibrium the inclination of the base of the hemisphere to the horizontal plane is $\sin^{-1} \frac{8\mu'(1+\mu)}{3(1+\mu\mu')}$.

3. Obtain expressions for the co-ordinates of the centre of inertia of a plane area, the equation of the bounding curve being given in polar co-ordinates.

Find the centre of inertia of the area bounded by the cardioid $r = a(1 + \cos \theta)$; prove that the volume of the surface generated by the revolution of the curve about its double tangent is $\frac{4}{3}a^3\pi^2$.

(The perpendicular from the origin on the double tangent is $\frac{a}{4}$.)

4. Find the attraction of a thin circular plate on a particle placed at any point of its axis.

Deduce the attraction of a solid hemisphere, radius a , on a particle placed at the point of contact of the tangent plane parallel to the base.

5. A light, inextensible string rests on a rough curve, being just on the point of slipping; if μ be the coefficient of friction, find the relation between the tensions at the extremities of the string.

Two equal weights are attached to the ends of a light string which hangs over a rough cylinder whose axis is horizontal; prove that either weight must be increased by $w(e^{\mu\pi} - 1)$ that it may begin to descend, w being the common value of the suspended weights.

6. Find the moment of inertia of a right circular cylinder about its axis.

A cylinder rolls from rest down a rough inclined plane. Show that the ratio of the linear velocity acquired by its centre of inertia to that due to a fall through the same vertical height is $\sqrt{2} : \sqrt{3}$.

7. A rigid body oscillates freely about a fixed horizontal axis, under the action of gravity. Show that the time of a small oscillation depends on the distance of the centre of gravity from the axis, and on the radius of gyration of the body about the axis.

Find the length of the equivalent simple pendulum for a sphere oscillating about a tangent line to its surface.

8. A heavy particle is constrained to move on a smooth curve in a vertical plane; if the position of rest be given, show how to determine the velocity and the reaction of the curve at any point.

A particle is placed on a smooth parabola, held in a vertical plane with its axis horizontal, at a height above the axis equal to the latus-rectum. Show that the particle will leave the curve at the extremity of the latus-rectum.

9. A particle is acted on by a central attraction P ; show that the differential equation of the orbit described is

$$\frac{d^2u}{d\theta^2} + u - \frac{P}{h^2u^2} = 0.$$

Find the attraction to the pole under which a particle will describe the curve $r = a(1 + \cos \theta)$.

10. A ball is projected from a point in the circumference of a circular hoop, and, making three rebounds from the circumference, returns to the point from which it was projected. Show that the direction in which it was projected makes an angle $\tan^{-1} \sqrt{e}$ with the radius to the point of projection, e being the coefficient of restitution.

11. Define simple harmonic motion; show that the acceleration of a point executing a simple harmonic motion is proportional to its distance from the centre of its path.

If a point moving with simple harmonic motion be at rest 4 feet from the centre of its path and have a velocity of 4 feet per second when passing through the centre, find its velocity and acceleration at a distance 2 feet from the centre; find also the time that elapses before it describes this distance from rest.

12. Define kinetic energy and potential energy. Prove that if a particle of mass m be moving with simple harmonic motion, the sum of its kinetic and potential energies is constant throughout the motion.

State the general proposition of which this is a particular case.

A particle of mass one gramme moves with simple harmonic motion; when at distances 3 and 4 centimetres from the centre of its path, its velocities are 8 and 6 centimetres per second respectively. Find the total energy of the particle at any instant.

13. A cylinder of wood (specific gravity = 0.6) 12 inches high floats in water with its axis vertical. To what depth will it be immersed? How far will it rise out of the water if a liquid whose specific gravity is 0.2 be poured upon the surface of the water so as to completely cover the cylinder?

SECOND PAPER—THREE HOURS.

1. See p. 484.
2. A rope is coiled $2\frac{1}{2}$ times round a cylinder, and a pull of 2000 lbs. is applied at one end of the rope. Find (1) the least force which, applied at the other end of the rope, will be sufficient to maintain equilibrium; and (2) the force which will be sufficient to overcome the 2000 lbs. pull. (Friction-coefficient between rope and cylinder 0.35.)
Prove the formula you use for the calculation.
- 3—5. See p. 485.
6. Find the amount of uniform torque required to transmit work at the rate of 5000 h.p. through a shaft revolving at 60 turns per minute.
7. See p. 485.
8. Explain how the modulus of rigidity can be determined by oscillation experiments on a wire or rod.
Investigate the equation you use for the calculation.
- 9, 10 See p. 485.
11. Define electric potential at a point.
Prove that the rate of variation of potential per unit length, in any direction, is equal to the component force in that direction.
If m, m', m'' , etc. be a number of masses at distances D, D', D'' , etc. respectively, from a point P , and attracting with forces inversely proportional to the square of the distance, prove that the potential at P is equal to

$$\Sigma \left(\frac{M}{D} \right).$$

12. A simple pendulum, 100 cm. long, oscillates in an arc of $2\frac{1}{2}$ cm. on each side of the middle position. Find, to a first approximation, the correction to be applied in order to reduce to vibration in an infinitesimal arc.
- 13, 14. See p. 486.

c.—ENGINEERING.

FIRST PAPER—TWO HOURS AND A HALF.

1. Explain the meaning you attach to the following terms in connection with iron and steel processes: Clay Ironstone, Bessemer Pig, Best Yorkshire Iron, Blister Steel, Cogging Mill.
2. Give a short account of the Siemens-Martin process and of the properties of Siemens-Martin Steel.
3. Give a short account of the chief properties of Copper which lead to its various applications in engineering.
4. Describe and contrast the properties of Copper-Zinc and Copper-Tin alloys, stating the purposes for which these alloys are used.
5. Give some account of the mode of shrinkage, the methods and objects of seasoning, and one process for the preservation of timber.

6. Give a short account of the preparation of Portland Cement and the tests applied to ascertain the qualities of a given sample.

7. Define the terms: Inertia, Kinetic Energy, Power, Stress, Momentum; and give the units in which each is commonly measured.

8. Explain how a specimen of wrought iron may be tested for Young's modulus, limit of elasticity, and maximum load, describing briefly the appliances to which you refer.

Why is the strength of a specimen of cast iron of rectangular section tested as a beam different from that calculated in the usual manner for the maximum stress for tension determined in a testing machine?

SECOND PAPER—TWO HOURS AND A HALF.

1. A reservoir has a flat bottom of rectangular form, 50 ft. \times 30 ft. and sides sloping $1\frac{1}{2}$ horizontal to 1 vertical. Find the volume of water it contains when the depth is 10 ft., and justify the mode of calculation you adopt. Sketch a curve showing by its co-ordinates the relation between depths and volumes. Give the equation to the curve.

2. What method or methods of surveying would you consider suitable for each of the following cases:

- (a) The survey of a large estate;
- (b) The survey of a small farm;
- (c) The survey of a route for a railway through a narrow valley;
- (d) The survey of a town?

3. Distinguish between the Y theodolite and transit theodolite, explaining in what respects the differences of construction affect the adjustment and use of the instruments.

4. Two straight reaches mD , nE of a railway, would, if produced, meet in an inaccessible point. The length of the transversal DE is 4052 links, the angle mDE is $129^\circ 22'$ and the angle nED is $142^\circ 10'$. Determine the points at which a circular curve of 40 chains radius would meet the straight tangents; and the angle at the circumference for an arc of one chain.

5. Explain the reasons for easing off the transition between the straight and circular portions of a railway line, and give an account, with sketches, of Fronde's method, explaining how the length of the curve of transition and the relative location of the "straight" and the circular arc may be fixed.

6. Sketch and explain the construction and graduation of one form of levelling staff. In levelling for a section a back-sight of 4.32 was taken upon a bench mark having a reduced level of 62.78 and successive readings of 3.70, 2.41 * 10.36, 8.20, 9.42, 11.68 * 2.46, 5.30, 8.50 were taken; the instrument being moved at the stages marked thus *. Enter these notes in a level book, cast it up and ascertain if the work checks.

7. Explain how to proceed, in the field, to determine the "half-breadths" for a railway cutting when the ground has an irregular sidelong slope.

THIRD PAPER—TWO HOURS AND A HALF.

(Not more than SEVEN questions are to be attempted.)

1. In respect to dry saturated steam explain the expressions, "total heat at constant pressure," "total heat at constant volume," and "latent heat"; and illustrate your answer by a diagram showing the values of these quantities for steam at different pressures.

2. Define Entropy. Sketch a Temperature-Entropy diagram for water at the boiling point and for saturated steam at various pressures. Discuss in connection therewith the question whether wet steam expanded adiabatically will become wetter or drier.

3. Investigate the efficiency of an ideal steam engine working with complete isothermal condensation on the return stroke, and explain the reason for the efficiency being less than that of a perfect heat engine working between the same limits of temperature.

4. Determine the indicated horse-power of the engine from the data given on the accompanying sheet.

5. Explain the thermo-dynamic and mechanical advantages of double and triple compound engines over single cylinder engines.

6. Criticise, with respect to the working of the engine, each of the indicator diagrams shown on the accompanying sheet, assuming them to have been taken on a single-cylinder non-condensing engine, and explain the defects of construction or adjustment which each indicates.

7. Explain what is meant by the "brake horse-power" of an engine, and describe the process of determining it in the case of an ordinary steam engine, say of 20 H.P., giving a sketch of the construction of a suitable brake.

8. State the principal losses of efficiency in steam boilers, and explain how you could determine the amounts of these in a given case. About what efficiency would you expect from a Lancashire boiler worked under ordinary conditions? and what evaporation, expressed in pounds of water "*from and at 212° F.*," would you expect per pound of coal? Explain the meaning of the expression *in italics*.

9. Assuming the resistance to be overcome by a single cylinder steam engine to be constant, explain, in general terms, how to determine the fluctuation of velocity of the engine from the indicator diagram, the dimensions of the fly-wheel, and other necessary data.

A fly-wheel 5 ft. in diameter and 6" breadth of rim is required for the same effectiveness as one 6 ft. in diameter, 5" broad, and 3" thickness of rim; determine approximately the thickness of the rim of the former, and explain how the calculation could be done accurately, neglecting the effect of the arms and nave in both cases.

FOURTH PAPER—THREE HOURS.

1. Sketch the stress-strain diagram which you would expect to get in a tensile test of a bar of mild steel 10" long between the gauge points and 1" in diameter, showing the scales of unital stress and of unital strain.

Name and describe the significance of the various features of the curve. Show also the diagram you would expect from a specimen $\frac{1}{2}$ " in diameter and 10" long, and explain the difference between the two.

2. Determine the stresses in the loaded bridge frame represented in the accompanying sheet, assuming all points of meeting of bars to be joints. Explain the significance you could attach to the line in the stress diagram joining the points corresponding to the spaces X and X' . Work the problem upon the sheet given.

3. The roof of a building 20 feet wide is to be covered by a tank constructed of steel plates, and which is to hold water to a depth of 3 feet. Determine, by approximate calculation, a suitable section for rolled steel joists of I section to support the tank if spaced 3 feet apart: neglecting the weight and stiffness of the tank structure.

4. The strength of steel wire is sometimes tested by finding the sag just before the wire breaks on being stretched between two points at a given distance apart. Specify such a test for a steel wire 0.1 inch in diameter which is to have a tensile strength of 50 tons per square inch.

5. Compare the strength, stiffness, and weights of two shafts of the same length, each 10" in external diameter, the one being solid and the other having a 4" hole bored throughout its length. What advantages would you attribute to the boring of the hole in the case of shafts (a) forged of scrap iron, and (b) forged from a mild steel ingot?

6. A cast-iron fly-wheel having a rim 6 ft. in diameter \times 5" broad \times 3" thick runs at 250 revs. per min. Find, approximately, the centrifugal tension in the rim and prove the formula you use. State your opinion as to whether the fly-wheel would be safe: neglecting the strength of the arms and assuming the fly-wheel to be cast in one piece.

7. Prove Euler's expression with respect to the elastic instability of long struts.

8. Describe and explain the principle of the jet pump.

9. Investigate an expression for the efficiency of a jet wheel having flat radial vanes in terms of the ratio of speed of vane to speed of jet neglecting friction and assuming the jet to impinge normally to the vanes. Construct a diagram showing what becomes of the energy of the jet for any ratio of speeds.

d.—ENGINEERING DRAWING.

FIRST PAPER—TWO HOURS AND A HALF.

1. The driving wheels of a locomotive are 4' 3" in diameter, and the crank radius is 12". Trace the path of the centre of the crank pin for one complete revolution of the wheels, assuming no slip.

2. A cam revolving at a uniform speed raises a tappet 6", at a uniform rate, in one-fourth of a revolution, and lowers it again 6", at a uniform rate, in half a revolution: where it rests for the remainder of the revolution. Draw the profile of the cam: the diameter of the shaft being 2", least thickness of metal round eye of cam $1\frac{1}{2}$ ", and diameter of roller on end of tappet 1".

3. Explain in a few words, by the aid of sketches, how you would proceed to solve the following problems :

(a) To draw the projections of an equilateral triangle of 1" side when its angular points are $\frac{1}{2}"$, $\frac{3}{4}"$, and $1\frac{1}{4}"$ respectively above the H.P.

(b) To draw the projections of a line inclined at given angles to the planes of projection.

(c) To draw the traces of a plane bisecting the angle between two intersecting oblique planes.

4. The horizontal and vertical traces of a plane make angles of 30° and 45° respectively with the ground line. Determine the projections of a point P lying in this plane, and $1\frac{1}{2}"$ from each of the planes of projection. Draw the projections of an equilateral triangle lying in the above plane, with one side inclined at 15° to the horizontal plane, and having its centre of gravity at P .

5. Draw a plane containing the line AB and touching the sphere shown in fig. 1 on the accompanying sheet.

6. Complete the drawings given in fig. 2 on the accompanying sheet.

7. Make an isometric projection of the object shown in fig. 3 on the accompanying sheet. (Isometric scale $\frac{1}{3}$ th full size.)

SECOND PAPER—THREE HOURS.

Design and make detailed drawings of two of the following :

(a) The longitudinal and transverse riveted joints for the shell of a Lancashire boiler 7' 6" in diameter ; the working (gauge) pressure being 150 lbs. per square inch.

(b) A plate-web girder for a clear span of 40 feet, and to carry a uniformly distributed load of 3 tons per foot run.

(c) A cast-iron spur wheel, 4 ft. in diameter, to transmit 250 horsepower at 100 revolutions per minute. The diameter of the shaft is 6", and the wheel is to be suitable to gear with a pinion 14" in diameter.

e.—ELECTRICITY (PURE AND APPLIED).

1. The fixed and movable balls of a torsion balance are of equal size, and, when each is charged with one unit of positive electricity, it is found that their angular distance apart is 15° . They are again charged, and in order to reduce their angular separation to 15° it is found necessary to twist the torsion head through 120° . What is the charge on each ball ?

2. Define "an electric image." Hence prove that the density at any point of the surface of an uninsulated sphere is inversely as the third power of the distance of the point at which an inducing charge is situated.

3. Find the magnetic force due to a small magnet (1) at a point on the axis produced, (2) at a point on a line through its centre at right angles to its length, and (3) at any point.

4. Solve the differential equation: $d^2x/dt^2 + 2k \cdot dx/dt + nx = 0$. Discuss the cases in which n is $>$, $=$, $<$ k , and indicate the practical problems in electric measurements in which one of your solutions occurs.

5. Write a short essay on the measurement of currents by electrolysis of copper solutions, discussing all the precautions necessary to obtain accurate results.

6. A piece of copper wire is given to you. Describe several laboratory methods by which you could get its resistance in ohms. Discuss the merits of the methods you describe, taking into account the magnitude of the resistance to be measured in each case.

7. Describe and discuss in detail the different methods of comparing the electromotive forces of primary or secondary cells.

8. Explain the statements:

One ampere = 3×10^9 electrostatic units of current.

One volt = $1/300$ electrostatic unit of potential.

One ohm = $1/9 \times 10^9$ electrostatic unit of resistance.

f.—NAVAL ARCHITECTURE.

MARINE ENGINEERING—THREE HOURS.

(TWELVE questions only to be attempted.)

1. Give reasons why Welsh coal is considered best for marine purposes. Show how to find the amount of air necessary to completely burn a sample of coal.

2. Obtain a formula showing the total head necessary to produce a given draught.

3. Describe the forced, induced, and closed stokehold, systems of draught.

4. Give sketches showing methods of connection between the furnace and the combustion chamber and front plate, if the furnace is to be removable.

5. A boiler is required to supply steam to an engine of 900 I.H.P. under natural draught. Find the size of boiler, furnaces, heating surface, and grate surface, and give a sketch showing the general arrangement. How much coal would this boiler require per day?

6. Two plates of a boiler shell 1" thick are to be connected by double buttstraps. Sketch a suitable arrangement of riveting, giving sizes of straps and rivets, and calculate the strength of the joint per pitch.

7. The intermediate cylinder of a triple expansion engine is giving too much power. How would you proceed to reduce this? Show by diagrams the effect of this upon the other cylinders.

8. Given the indicator cards for each end of a cylinder, show how to find the true piston effort diagram, taking account of the inertia of the reciprocating parts.

9. A three cylinder triple expansion engine of the cruiser type is required to develop 5000 I.H.P. Stroke not to exceed 3' 6". Find the sizes of cylinders and main steam pipe.

10. What sizes of crank shaft and piston rods would you adopt for the engine in question 9? State the material used, and give a sketch (sectional) of the H.P. cylinder, showing piston, ports, etc., and give approximate sizes.

11. Sketch and explain Zeuner's diagram for a simple valve. Describe Stevenson's and Joy's valve gears, showing arrangements for reversing.

12. Give an account of the different forms of vibrations in an unbalanced engine. Show how the position of the engine and arrangement of cylinders affects the vibrations of the ship.

13. Show how an engine may be balanced by means of additional weight at certain points, and by "angling" the cranks.

14. Sketch and describe the Belleville (latest type), Normand, and Babcock and Wilcox watertube boilers, giving the approximate weight per I.H.P. of each.

STRENGTH OF SHIPS—THREE HOURS.

1. Explain why generally even in still water the structure of an actual ship experiences stresses.

2. State and prove the relation which exists between curves of loads, shearing forces and bending moments.

3. Prove that $\frac{p}{y} = \frac{M}{I} = \frac{E}{R}$ giving the assumptions upon which these formulae are based.

4. What is the cause of shearing stress in a ship? State how it varies, and where in an Atlantic liner it is generally maximum.

5. Find the maximum bending moment, shearing force tension and shearing stress in *one* of the following:

(a) A rectangular tank $100' \times 35' \times 15'$ drawing $10'$ of water has a hull weighing 500 tons and a load occupying one-third of the middle of the ship and uniformly distributed. Plating $\frac{1}{4}$ inch thick on shell and deck, all other structure negligible.

(b) A vessel has circular sections throughout, and is floating at the water plane through the centres of the circles, dimensions, $100' \times 35'$; the waterline is a curve of versed sines at each end; and is loaded with 200 tons amidships uniformly distributed over one-half the length.

6. Explain how you would find the supporting forces on a ship in a wave of standard dimensions, when the wave-pressures are taken into account.

7. Prove that in a vessel in which the moments of inertia of the two ends are the same, the stresses at the midship section due to pitching are zero.

8. Explain how the passage of waves causes a ship to heave and how the stresses are affected by this.

9. Sketch roughly the midship section of any type of ship with which you are familiar, giving the scantlings of the material and spacing of rivets in the different parts.

10. Sketch an arrangement of butts and riveting on deck or shell

plating, and calculate the strength of the butt under shearing and cross breaking in one case of each kind.

STABILITY AND ROLLING—THREE HOURS.

1. Obtain a formula for determining GZ in terms of the volumes and moments of wedges of emersion and submersion.

2. Describe the polar method of integration for obtaining statical and dynamical stability, giving the forms of tables used.

3. State and prove the relation which exists between the position of the metacentre corresponding to a given angle of inclination and the slope of the curve of stability.

4. Having obtained a series of cross curves of stability for a ship shaped form up to 90° , show how the cross curves from 90° to 360° can be obtained.

5. Deduce Leclerts' formula for the relation between the radii of curvature of surfaces of buoyancy and flotation.

6. Discuss the relation that exists between the slope of the tangent to a metacentric diagram and the radii of curvature of flotation and buoyancy.

7. Deduce the equation for isochronous rolling in an unresisting medium.

8. State the period of rolling in a resisting medium at which the resistance varies as the angular velocity.

9. State the effect of waves upon the oscillation of a ship, neglecting resistance (1) when the period of the ship is short, (2) when long, in relation to the wave period. Describe experiments to illustrate these.

10. A ship has a metacentric height of 3.0 feet and a displacement of 15,000 tons; what weight will incline her 10° if placed 30 ft. from the centre line of ship? If this ship has a period (double roll) of 14 secs. find her radius of gyration.

CALCULATIONS—THREE HOURS.

1. State and prove Simpson's first rule.

2. Explain the method of finding an area by Tchebycheff's rule. Apply this rule to find the Displacement and C.B. vertically and longitudinally of the following set of ordinates, which are measured at positions to suit this rule:

ABSC.	W. L.	SECTIONS.							
3.82	1	2.4	12.65	16.0	17.5	14.25	9.94	2.1	
1.72	2	1.82	11.05	15.1	17.25	13.6	9.10	1.8	
.0	3	1.21	9.49	14.0	16.62	12.5	8.0	1.4	
1.72	4	.82	7.22	12.21	15.35	11.04	6.75	1.0	
3.82	5	.25	3.05	6.8	8.6	6.5	3.5	.3	
Abse.		119.3	71.5	43.7	.0	43.7	71.5	119.3	

Length 270'

Draught 9'.

3. Prove the following rule for finding the area of a curve defined by "n" equidistant ordinates :

$$\frac{h}{12} (5y_1 + 13y_2 + 7y_{n-1} - y_n) + y_3 + y_4 \dots y_{n-2}.$$

4. Prove that the volume of displacement cut off by two waterplanes inclined at a small angle is the same, if the line of intersection passes through the centre of gravity of the first plane. Show how this property is made use of in connection with the actual draught marks on a sheer drawing.

5. Describe how a metacentric diagram is made when the values of B.M. are known. Knowing the c.g. of the ship in the light condition, show how to obtain a locus of c.g. of ship, coals, and cargo, assuming the ship filled with homogeneous cargo at varying densities.

6. A rectangular vessel is 100 ft. long \times 20 ft. broad \times 10 ft. deep, drawing 5 ft. Find the change of draught at each end due to flooding a compartment between transverse bulkheads which are respectively 60 ft. and 70 ft. from the stern. Find also the vertical change in the transverse metacentre.

7. Describe the method of finding the tipping and lifting moments on a ship at launching.

8. Explain the method of finding the dimensions of a ship to carry a given weight of cargo. Find the dimensions of a ship to carry 10,000 tons dead weight, all told, on a draught of 28' 0", assuming the speed to be 12 knots per hour.

9. What are the principal types of warships of which the British Navy is now composed? Give the approximate dimensions, displacement, speed, armament, and armour of each type.

10. A paddle steamer of 18 knots speed having engines running at 50 revs. per min. is to be designed. What diameter of paddle wheel would you give her? If her machinery was of 3000 I.H.P. about what size would the floats be?

RESISTANCE AND WAVES—THREE HOURS.

1. State and prove Fronde's Law of Comparison, and explain how it is applied to find the resistance of a ship.

2. Deduce the relation between speed, resistance, and displacement of forms similar, but varying in absolute dimensions.

3. Describe fully the method of taking observations on the measured mile trial, and explain how the results are plotted.

4. Deduce the relation between pitch slip and propulsive efficiency of a small element of a propeller blade.

5. State the law of comparison between propellers varying in absolute dimensions when moving in the water independently of a model.

6. Explain how the results obtained from propellers experimented upon independently of a model can be made use of for determining propeller efficiency behind a model.

7. Explain the structure of a trochoidal wave surface, giving the relation between speed of wave and length.

8. Deduce the relation $r = r_0 e^{-\frac{y}{k}}$ for a trochoidal wave, and show that if the condition of continuity of flow is fulfilled, the pressure in a trochoidal sub-surface will be the same as in the corresponding still water layer.

9. Obtain an expression for the total energy of a trochoidal wave of infinite depth and one wave length.

IV.—FOR DEGREES IN MEDICINE AND SURGERY.

I. PRELIMINARY EXAMINATION.

ENGLISH.

Saturday, 1st April, 1899—9 A.M. TO 12 NOON.

(EIGHT, and not more than EIGHT, questions are to be answered. 1 and 2 must be answered, with either 3 or 4, and either 5 or 6. The remaining FOUR may be any questions not already answered.)

1. Write an essay, from two to three pages in length, on one of the following subjects:

- (a) The Conquest of the Soudan.
- (b) Characters of medical men in works of fiction.
- (c) The Arabian Nights.

2. Paraphrase the following:

John of Gault to His Banished Son.

All places that the eye of heaven visits
Are to a wise man ports and happy havens.
Teach thy necessity to reason thus:
There is no virtue like necessity.
Think not the King did banish thee,
But thou the King. Woe doth the heavier sit,
Where it perceives it is but faintly borne.
Go, say I sent thee forth to purchase honour.
And not the King exiled thee: or suppose
Devouring pestilence hangs in our air,
And thou art flying to a fresher clime.
Look, what thy soul holds dear, imagine it
To lie that way thou go'st, not whence thou comest:
Suppose the singing birds musicians,
The grass whereon thou tread'st the presence strewed.
The flowers fair ladies, and thy steps no more
Than a delightful measure or a dance.

3. (a) Give some account of four of the following: St. Augustine, De Montfort, The Cecils, The Cabots, Chevy Chase, O'Neill's Rebellion, The Peasant War, The Great Harry, Maintenance, El Dorado.

Or, (b) Comment upon the following passages :

- (1) "False, fleeting, perjured Clarence,
That slew me on the field by Tewkesbury."
- (2) "Ye towers of Julius ! London's lasting shame,
With many a foul and midnight murder fed."
- (3) "At Flores in the Azores Sir Richard Grenville lay."
- (4) "A king has come to marshal us,
All in his armour drest."

4. (a) Give some account of *four* of the following : Duns Law, Battle of Plassy, Death of Wolfe, Relief of Derry, Career and Fate of Montrose, Massacre at Cawnpore, Boston Tea-party, Rorke's Drift, Death of Gordon.

Or, (b) Comment upon the historic interest of *four* of the following : Burke's Oratory, "Eikon Basilike," "Absalom and Achitophel," "North Briton," "Drapier Letters," "The Spectator," "No Bishop, no King," "New Presbyter is but old Priest writ large."

5. Where, and for what noted, are any *six* of the following : Mombasa, Kiel, Barrow, Delagoa Bay, Duluth, Manila, Apia, Port Said, Wady Halfa, Suda Bay, Trieste, Santiago ?

6. Comment upon the geographical interest of *four* of the following : Spheres of Influence, Extradition, French Shore, Kroomen, Cow-boys, Lumberers, Most Favoured Nation, Treaty Ports, Ice-free Port, Pan-Slavism.

7. Re-write, so as correct and improve, the following sentences, *giving reasons for any changes you may make* :

(a) I would prefer to trust my friend than to believe he would demean himself by deceiving me.

(b) I intended to have gone to London as soon if not sooner than you.

(c) The Liberal candidate was handled with equal roughness as the Conservative, and neither were listened to.

(d) Having perceived the silliness of his intensions, these are now disappearing like chaff before the sunshine.

8. Give a *general* analysis of the following passage, and parse the words in *italics* :

"Is it too late *then*, Evelyn Hope ?

What, your soul was pure and true,

The good stars met in your horoscope,

Made you of spirit, fire, and dew—

And *just* because I was thrice as old,

And our paths in the world diverged so *wide*,

Each was nought to each, must I be told ?

We were fellow-mortals, nought beside ?"

9. (a) Give the derivation of *eight* of the following words : Cancer, poison, digest, deglutition, anatomy, function, lumbago, ligament, vertebra, essay, sample, ransom, pungent, engross, eradicate, incisors.

Or, (b) Give equivalents from the Latin for *five* of the following, adding the derivations of these equivalents : Hostile, hurtful, haughty, talkative, hesitate, cease, reckon, scatter, belief, hindrance, home, betterment.

10. Make sentences illustrating the various uses of "like," and explain the grammatical import of each. Give examples of faulty uses of the word.

11. Write short notes on some of the most famous works which appeared during the reign of any *one* of the following: James IV., James I. (of England), Charles II., George I., George II., George III.

Or, Write a short account of *one* famous British work of *each* of the following kinds: (a) history, (b) elegy, (c) essay, (d) allegory in verse.

12. Give the meaning of any *five* of the following terms or phrases: "One man, one vote," "Local Option," "Corner in cotton," "Clearing-house," "Middle Ages," Heroic Couplet," "Continental Sunday," "Trans-substantiation," "Wireless telegraphy," "Anti-cyclone."

LATIN.—See p. 438.

GREEK.—See p. 441.

MATHEMATICS.—See p. 444.

FRENCH.

Tuesday, 4th April, 1899—3 TO 6 P.M.

I. Translate into French :

1. The most wonderful of the events that happened to me in my younger days was this : I was residing in Damascus, where I learnt and practised my art ; and, while I was thus occupied, one day there came to me a servant from the house of the governor of the city. I went with him and accompanied him to the abode of the governor. I entered, and beheld at the upper end of a saloon a sofa, upon which was reclining a sick man. He was young ; and a person more comely had not been seen in his age. Seating myself by his side, I asked him to let me feel his pulse, whereupon he put forth to me his left hand. I was surprised at this, and said within myself : "What insolence !"

2. (a) Is it not very cold to-day ?

(b) He said he could not believe it.

(c) I heard from him a week ago.

(d) He will answer all the questions you ask him.

(e) How is he to-day ? A little better than yesterday.

II. Translate into English :

1. Par une splendide matinée de printemps, cheminaient sur une des grandes routes qui sillonnent nos riches campagnes trois vigoureux enfants de la Champagne : le cœur gros, la bourse légère, ils quittaient le toit paternel. Ils se dirigeaient vers Paris, non qu'ils voulussent y chercher fortune, mais au contingent scientifique, qu'ils avaient recueilli des leçons de Monsieur le curé, ils sentaient le besoin d'ajouter, car ils étaient ambitieux. L'un d'eux visait à être le médecin du canton et, se partageant le pays, les deux autres voulaient y être apothécaires ; le plus téméraire allait même jusqu'à rêver d'associer à son laboratoire un petit commerce d'épicerie.

2. Pourtant Cromwell mourut triste. Triste, non seulement de mourir, mais aussi, et surtout, de mourir sans avoir atteint son véritable

et dernier but. Quel que fût son égoïsme, il avait l'âme trop grande pour que la plus haute fortune, mais purement personnelle et éphémère, comme lui-même ici-bas, suffît à le satisfaire. Las des ruines qu'il avait faites, il avait à cœur de rendre à son pays un gouvernement régulier et stable, le seul gouvernement qui lui convint, la monarchie avec le Parlement. Et en même temps ambitieux au-delà du tombeau, par cette soif de la durée qui est le sceau de la grandeur, il aspirait à laisser son nom et sa race en possession de l'empire dans l'avenir. Il échoua dans l'un et l'autre dessein : ses attentats lui avaient créé des obstacles que ni son prudent génie ni sa persévérante volonté ne purent surmonter.

III. GRAMMAR.

1. Illustrate by short sentences the use of the following words : *avant, devant, dans, dedans, sous, dessous.*

2. Write the comparative and superlative of *peu, bien, mal, beaucoup, petit, mauvais.*

3. Write the second person singular and second person plural of the imperative of *aller, mouvoir, boire, faire, venir, craindre.*

4. Give the feminine forms of *maître, empereur, acteur, baron, marcheur, meilleur.*

5. Form adverbs from *lent, constant, frais, sot, mou, sec.*

GERMAN.

Wednesday, 5th April, 1899—3 TO 6 P.M.

I. Translate into English :—

(a) Felix war in den Garten gesprungen, Wilhelm folgte ihm mit Entzücken; der schönste Morgen zeigte jeden Gegenstand mit neuen Reizen, und Wilhelm genoß den heitersten Augenblick. Felix war neu in der freien und herrlichen Welt, und sein Vater nicht viel bekannter mit den Gegenständen, nach denen der Kleine wiederholt und unermüdet fragte. Sie gesellten sich endlich zum Gärtner, der die Namen und den Gebrauch mancher Pflanzen hererzählen mußte; Wilhelm sah die Natur durch ein neues Organ, und die Neugierde, die Wißbegierde des Kindes ließen ihn erst fühlen, welch ein schwaches Interesse er an den Dingen außer sich genommen hatte, wie wenig er kannte und wußte. In diesem Tage, dem vergnügtesten seines Lebens, schien auch seine eigne Bildung erst anzufangen; er fühlte die Notwendigkeit, sich zu befehren, indem er zu lehren aufgefordert ward.

(b) Durch die grauen Nebel des Herbstmorgens zog ein Schwarm von Wandervögeln. Wie zum Abschiedsgrüße strichen.

sie noch einmal dicht über die Wipfel der Wälder hin, dann hoben sie sich hoch empor, wandten ihren Flug nach Süden und verschwanden langsam in der umschleierten Ferne.

Aus einem der Fenster des mächtigen schloßartigen Gebäudes, das am Rande der Forsten lag, blickte ein Paar Augen jenem Fluge nach, die ernsten, düstern Augen eines Mannes, der im Gespräche mit einem andern Herrn am Fenster stand. Es war eine hohe, markige Gestalt, mit nicht schönen, aber ausdrucksvollen Zügen, blond und blauäugig, eine echt germanische Erscheinung, dessen straffe Haltung auch ohne die Uniform, die er trug, den Soldaten verraten hätte.

II. Translate into German :

1. One day when Ornit was standing, as he often did, on the seashore, watching the waves that rose and fell, coloured by the light of the setting sun, a mist came up out of the water. A few minutes more, and it parted slowly like a veil, showing a wondrous sight. It was a castle with towers and great walls, and on the wall stood a woman such as he had never seen before in all his travels. He could not take his eyes off her. The effect of her beauty on him was like enchantment. Then the mist gradually closed again, and lady and castle vanished as completely as if they had never been.

2. (a) I was sorry for your friend.

(b) He who has done this will be punished.

(c) You know that you must write to him.

(d) We should have seen him, had he been able to come.

(e) He has succeeded in all his enterprises.

III. GRAMMAR.

1. Give the German equivalents—in the nominative and genitive singular and nominative plural, with the definite article—of any six of the following words: Knowledge, pain, art, leg, chin, gender, history, brother-in-law, slipper, edge, roof, hero, tree.

2. Form adjectives of any six of the following nouns: *Tag, Sonn, Holz, Irrtum, Absicht, Land, Christ, Kind, Thor, Eisen, Freund, Freude, Sturm, Bruder*.

3. What is the German for “before” and “after”;

(a) as prepositions;

(b) as adverbs;

(c) as conjunctions?

Add sentences illustrating the use of each of these words.

4. State what different meanings are attached to different genders of each of these words: *Heide, Bauer, Flur, Erbe, See, Leiter*.

5. Give the third singular of the present and imperfect indicative and the past participle of *widerstehen, leiden, umfallen, ziehen*.

II. PROFESSIONAL EXAMINATIONS.

I. FIRST PROFESSIONAL EXAMINATION.
CHEMISTRY.

3rd October, 1898.

(Equations to be given wherever possible.)

1. Mention all the points of difference you have observed between chemical combination and ordinary mixture, giving examples of each.

Explain the terms: oxidation, dissociation, valency, substitution, isomerism.

2. Make a diagram of an apparatus for preparing sulphur dioxide from sulphuric acid. Explain the process and give a full account of the properties of the gas.

3. Explain the economic importance of "fixed" or combined nitrogen. How can nitrates be made artificially from free nitrogen? Calculate what volume of nitrogen measured at 13° and 740 mm. is contained in 1 kilogram of saltpetre. ($K=39$.)

4. Give the chemical names and formulae of the following substances: lime, washing soda, oil of vitriol, and soap. Indicate the method used for the manufacture of each on the large scale.

5. Write the constitutional formula of ethyl alcohol. Describe briefly the process that would be used to determine the empirical formula of the substance, and explain fully the grounds for adopting the constitutional formula given.

BOTANY.

3rd October, 1898.

1. Describe the Vascular System of a Dicotyledonous seedling, giving a brief account of its structure, and of the functions of the several elements.

2. Give a detailed account, with drawings, of the structure of an anatropous ovule at the time of fertilization.

3. Give an account of the modes of vegetative propagation seen in Liverworts, Mosses, and Ferns, and compare them.

4. Give an account of carbon assimilation in plants.

5. Write a general account of water plants, pointing out (a) any peculiarities of structure, and (b) how they obtain their food supply.

Only 5 of the above to be attempted for first Professional.

Questions 1 to 5 to be answered for 1st B.Sc.

No. 6 to be answered for M.A.

6. Draw the floral diagrams from plants belonging to the Compositæ, Dipsacæ, and Valerianacæ, state what species your diagrams refer to, and write a short account of the three orders.

ZOOLOGY.

October, 1898.

(Medical candidates may select THREE of the following: Science candidates are expected to answer all.)

1. Mention what is seen in a transverse section through an Actinia (*a*) in the upper, (*b*) in the lower third of its height.
2. Distinguish Cœlenterates from Sponges.
3. Why are Monotremes termed Ornithodelphia?
4. Under what form does the Allantois appear in Birds, Kangaroos, and Echidna?
5. Mention the groups in which a placenta or something analogous thereto has been described.
6. Give some account of the "division of labour" and "alternate generations" among Cœlenterates.

PHYSICS.

4th October, 1898.

(Not more than FOUR questions to be answered.)

1. Describe Nicholson's hydrometer. In a Nicholson's hydrometer 30 grammes are required to sink the instrument to the mark. The weights necessary when a certain solid is (*a*) in the upper pan, (*b*) in the lower pan, are 2.54 grammes and 10.23 grammes respectively. Find the specific gravity and volume of the solid.
2. What is meant by dew point? Describe an apparatus to determine it. How is the humidity of the air found from the indications of the apparatus you describe, and Regnault's Tables?
3. Explain the phrase "critical temperature" of a gas. Give some account, with diagrammatic illustrations, of the experiments of Andrews on the liquefaction of carbonic acid gas at different temperatures.
4. Explain the occurrence of "beats" when two notes of almost the same pitch are sounded together.
Why does the pitch of an organ pipe alter with change of temperature? If a pipe sounds a note whose frequency is 256 when the air is at 0°C., find what will be the frequency when the air is at 20°C.
5. A pencil of light passes from a medium optically denser to a medium optically rarer. Draw a diagram to show angle of incidence, angle of reflection, and angle of refraction. From your diagram explain what is meant by "total reflection" and "critical angle."
Describe Nicol's prism and show how the phenomenon of total reflection is illustrated in it.
6. State Faraday's laws of the chemical decomposition of electrolytes. Describe an experiment for the electrolysis of a solution of copper sulphate in which copper is deposited on a copper plate, and explain how the strength of a current can be thus determined.

II. SECOND PROFESSIONAL EXAMINATION.

DESCRIPTIVE ANATOMY (M.B. AND C.M.).

4th October, 1898.

1. Describe the structure and connections of a lymphatic gland.
2. Describe the plantar aponeurosis and the superficial layer of muscles of the sole of the foot.
3. Describe the ligaments and synovial cavity of the ankle-joint.

ANATOMY (M.B. AND CH.B.).

4th October, 1898.

1. Describe the appearances seen with the unassisted eye in a section of the liver, a section of the spleen, and a section of the kidney.
2. Describe the corpora striata, their extent, their nuclei, and their relations.
3. Describe the muscles of the soft palate, and the action of each in deglutition.
4. Describe the positions of the various muscles, arteries and nerves where cut across in a transverse section of the thigh half way down the femur.

PHYSIOLOGY—Two Hours.

4th October, 1898.

1. What nerves connect the heart with the central nervous system in a mammal, *e.g.* the rabbit? State precisely the function of each nerve, and describe the experimental evidence on which your statements are based.
2. Describe the minute structure of dense bone. Explain how a long bone is developed.
3. How may the gases of the blood be collected? What is their nature and amount by volume? What is the physiological significance of the existence of gases in the blood in the theory of respiration?
4. Give an account of the mechanism and innervation of accommodation. How may the generally accepted view be proved to be correct?

MATERIA MEDICA AND THERAPEUTICS— Two Hours.

4th October, 1898.

1. Enumerate the chief alkaloids and other principles contained in *Opium*, and give an account of the pharmacological action and therapeutical uses of *Codeine*.

2. Describe the ordinary methods of administering (1) *Ammonium Chloride*, (2) *Amyl Nitrite*, (3) *Nitro-glycerine*, (4) *Chloral Hydrate*, (5) *Phosphorus*. Enter fully into details as regards doses and preparations.

3. Give an account of the therapeutical uses of the *Thyroid Gland*, stating how it may be administered, and in what quantity. Mention any other glands which are used medicinally, and give your opinion as to the value of each.

4. What are the characteristics of a *Seaside Climate*? Mention the different classes of cases which may derive benefit from such a climate.

5. Give an account of the action of *Caffeine* on man, and state its therapeutical applications and dose.

III. THIRD PROFESSIONAL EXAMINATION.

REGIONAL ANATOMY (M.B. AND C.M.).

4th October, 1898.

1. Describe the relations of the urinary bladder, distinguishing those common to both sexes and those peculiar to each sex.

2. Describe the boundaries of the digastric space and the dispositions of parts within it.

3. Describe the parts exposed in a dissection between the last rib and the crest of the ilium, conducted as far as the deep surface of the transversalis abdominis muscle.

PATHOLOGY—Two Hours.

5th October, 1898.

(Only FOUR questions to be answered.)

1. Describe the condition of parts in an anencephalous monster. How is the condition supposed to arise?

2. Distinguish the position and relations of ovarian cysts and cysts of the broad ligaments respectively. What are the usual characters of the cysts in each case?

3. Under what circumstances are cysts found in the cortex or pyramids of the kidney? Give an account of their causes, structure, and varieties.

4. Describe the various modes of repair in wounds of the skin and soft tissues.

5. What are the diseases of the lung in connection with which bronchiectasis occurs? Describe the naked eye and microscopic appearances of the condition, and explain its modes of origin.

MEDICAL JURISPRUDENCE—Two Hours.

5th October, 1898.

(NOTE.—Candidates under *New Regulations* to answer **FOUR** questions, which must include No. 1; and candidates under *Old Regulations*, **FIVE** questions.)

1. Describe the symptoms and post-mortem appearances in poisoning by Oxalic Acid. Give the chemical tests by which it may be detected, and name some of the substances for which it may be taken by mistake.

2. Describe the signs and symptoms likely to be found, eight days after delivery, in a woman who is charged with Concealment of Birth? Which would you deem of greatest importance?

3. What systematic scheme of investigation would you suggest for the identification of criminals? Discuss the advantages and disadvantages of the present methods.

4. How may human red blood-corpuscles be distinguished from those of the lower animals? Describe the spectroscopic test for blood, and give reasons why the spectrum found is not always the same.

5. Give a sketch of a medico-legal report of the post-mortem examination of the body of a man who has died from fracture of the skull, for a Court of Law in Scotland.

PUBLIC HEALTH—Two Hours.

5th October, 1898.

1. Describe the changes which take place in the air of a room of one thousand cubic feet capacity after four hours' continuous occupancy by four persons. State how you could prove excess of harmful components.

2. What is meant by "soft" and "hard" water? What is their respective plumbo-solvent action, and what their respective value in municipal economies?

3. Describe briefly the processes for the purification of sewage known as Irrigation, Precipitation, and Bacteriolysis; and, in some detail, that known as Intermittent Downward Filtration.

4. It is proposed to build an Isolation Hospital for the section of a county, chiefly rural, but containing two mining centres, the total population being 12,000 persons. State the provisions you would make in respect of (a) site, (b) number of beds, (c) ward accommodation, (d) ward space, (e) drainage, and (f) disinfection.

IV. FINAL PROFESSIONAL EXAMINATION.

SURGERY—Two Hours.

30th May, 1898.

(N.B.—FOUR questions only to be answered, of which the FIRST must be one.)

1. Describe minutely the histological processes involved in the repair of wounds of the soft tissues.
2. Give the symptoms, appearances, and treatment of Strangulated Femoral Hernia.
3. Give the pathology, symptoms, and treatment of Acute Osteomyelitis of the lower third of the Femur; and describe the mode in which local and systematic complications may arise.
4. Describe the pathology, and give the symptoms of Abscess of the Brain. Give the usual localities of Brain Abscesses, and state the reasons for their occurrence in these situations.
5. Describe the pathological processes involved in Tubercular Disease of the Elbow Joint, and give the symptoms and treatment.

PRACTICE OF MEDICINE—Two Hours.

30th May, 1898.

(FOUR questions only are to be answered, an option being given as between No. 4 and No. 5, but Nos. 1, 2, and 3 are not optional.)

1. Describe the physical signs of Ascites. With what other enlargements of the abdomen is it liable to be confounded? What are the causes that give rise to it, and how may they be differentiated? Select one only of the forms of disease referred to for remarks in reference to treatment, and give prescriptions written out in the form in which you would send them to the chemist to be dispensed.
2. Describe the urine from a typical case of
 - (a) Acute Parenchymatous Nephritis,
 - (b) Chronic Interstitial Nephritis,
 - (c) Diabetes Mellitus,
 - (d) Diabetes Insipidus.

Mention the course of treatment you would follow in any two of these conditions, and point out what changes in the urine would be suggestive of its efficacy.

3. Enumerate the vascular lesions upon which Hemiplegia depends, and state how they may be distinguished from one another clinically. How does the situation of such a lesion affect the distribution of the paralysis?

4. A man, aged 47, applied to the hospital, in February, 1897, with the following history: He had contracted Syphilis in 1880, and had been thoroughly treated for it at the time. There had been no definite syphilitic manifestations since. His present illness had commenced in

1885 with a difficulty in passing water. [It may be assumed that there was no evidence of stricture.] A few months later this was followed by abnormal sensations round the waist and shooting pains in the legs. Subsequently there was diminished sensation in the feet, the knee-jerks disappeared, and his power of locomotion became so much impaired that he was unable to walk for more than ten or fifteen minutes at a time. He was sent to Bath, and after being under treatment there and elsewhere for six months he made an apparently complete recovery. A return of his old symptoms, however, brought him to the hospital. Comment on this case. If more than one diagnosis is suggested by the history, discuss the facts stated in reference to views that might be entertained, and give additional particulars which might confirm the diagnosis preferred.

5. An anæmic-looking girl, of stunted growth, aged 12, came to the hospital in March, 1897, to be cured of a skin affection which implicated the right side of the nose and a considerable portion of the right cheek. When four years of age she was confined to bed for some months with an affection which had produced temporary paraplegia, and had necessitated the subsequent support of a plaster-of-Paris jacket. The patch of skin-disease on her face presented an ulcerated surface at its nasal margin, while over the cheek a thin, puckered cicatrix replaced what had previously been an active ulcerative process. There was considerable painless enlargement of the cervical lymphatic glands. In the lower dorsal and upper lumbar regions of the spine there was a marked posterior curvature. The heart was practically normal in all its diameters, but a loud systolic murmur was audible over the base. Below the right clavicle there was a limited area of dulness, over which the respiratory murmur was tubular and accompanied by moist râles on deep inspiration. The liver was enlarged and could be distinctly felt below the costal arch: it was firm, smooth, and painless to palpation. The urine was abundant, of low specific gravity, and contained albumen. Discuss this case, and indicate the significance of the various symptoms in their relation to the diagnosis at which you would arrive from a consideration of the facts set forth, stating specifically the probable nature of the lesions adverted to.

OBSTETRICS AND GYNAECOLOGY—TWO HOURS.

31st May, 1898.

(Answer FOUR questions only, including 2 and 5.)

1. Describe the diagnosis and treatment of tubal pregnancy.
2. What points can be ascertained during the first stage of labour—
 - (a) by palpation?
 - (b) by auscultation?
 - (c) by vaginal examination?
3. Enumerate the various abnormal conditions in the mother or child that might interfere with the second stage of labour.
4. Give the causes, diagnosis, and treatment of retroflexion of the uterus.
5. Describe the treatment of the various forms of uterine fibroids.

V. FOR DEGREES IN LAW.

I. PRELIMINARY EXAMINATIONS FOR B.L.

a.—ARTS AND SCIENCE PRELIMINARY.

(See pp. 435—458.)

b.—ARTS SUBJECTS.

(Same as for Degree of M.A. See pp. 458—488.)

II. LAW EXAMINATIONS FOR LL.B. AND B.L.

1. CIVIL LAW—THREE HOURS.

(Candidates are requested to answer only TEN of the following twelve questions.)

1. Describe the position of (a) the *rex* and (b) the *gens* in the political and social organisation of early Rome.

2. What were the functions of the Senate (a) during the Republic, and (b) in the early Empire?

3. Give a brief account of any two of the following: *Lex Hortensia*, *Codex Theodosianus*, *Novellae Constitutiones*.

4. Sketch briefly the history of the *responsa prudentium*.

5. What modes of *manumissio* were recognized by the *jus civile*? Describe the process of *emancipatio* in the classical law.

6. Translate and explain the statement: *Aliquando autem evenit ut liberi, qui, statim ut nati sunt, in potestate parentium non fiant, postea tamen redigantur in potestatem* (*Inst. I. 10. 13*).

7. Illustrate the application of the following rules:

(1) *Et tutelam et curam placuit publicum munus esse.*

(2) *Nasciturus pro jam nato habetur quoties de commodum ejus agitur.*

8. State the principles of ownership applicable to the following cases: (a) the sea-shore, (b) a burying-ground, (c) treasure found by one man in the ground of another, (d) a promised gift, (e) a building erected by a person on his own ground with materials of another.

9. What were the requisites of the acquisition of property by *usucapio* under the legislation of Justinian?

10. State the order of intestate succession as finally settled by Justinian in Novels 118 and 127.

11. Distinguish *mutuum* and *commodatum*. Explain the purpose and effect of the *SC. Macedonianum*.

12. Verbis obligatio contrahitur ex interrogatione et responsu cum quid dari fierive nobis stipulamur. Ex quâ duæ profiscuntur actiones, tam condictio, si certa sit stipulatio, quam ex stipulatu, si incerta.

Translate and explain this passage. How are *stipulationes* classified in the Institutes? Upon what grounds might a *stipulatio* be *inutilis*?

(CANDIDATES FOR DEGREES IN LAW are recommended to answer, in addition to the above, two of the following questions.)

1. Distinguish the contracts *emptio-venditio* and *permutatio*.
2. Qui vendidit necesse non habet fundum emptoris facere, ut cogitur fundum stipulanti spondere. Comment on this passage, explaining its origin, and comparing the Scots rule.
3. Distinguish the *actio redhibitoria* and the *actio quanti minoris seu aestimatoria*.

2. LAW OF SCOTLAND—THREE HOURS.

(Not more than TWELVE of the following questions to be attempted, of which ONE must be in CRIMINAL LAW.)

1. What is (a) a Sale, and (b) an agreement to sell? When did (c) the risk, and (d) the property of specific goods sold pass at Common Law, and when do they pass under the Sale of Goods Act?
2. When are goods *in transitu*? In what circumstances, and how, is it competent for a seller to exercise the right of stoppage *in transitu*?
3. Define *locus poenitentiae*, *rei interventus*, homologation.
4. What is essential error in contract? What is the effect of error in fact as regards (a) contract, (b) money paid?
5. What is a legal presumption? Enumerate the different classes of presumption, stating their respective effects, with examples.
6. What are the general rules as to the rights and liabilities of parties under a contract made by an agent for an undisclosed principal? What is the governing rule in any given case?
7. How far is a person who represents himself as a partner liable to the creditors of a firm? On the bankruptcy of a firm what estates are liable for its debts, in what order, and to what extent?
8. What is the register of a company registered under the Companies Acts? If a person is induced by fraud to become a member of such a company, what are his remedies while the company is a going concern and after it has stopped payment?
9. State the conditions under which debts may be extinguished by compensation.
10. What is the distinction between prescription and limitation? To what debts do the quinquennial and sexennial limitations and the triennial prescription respectively apply?
11. What is the hypothec for rent and how is it enforced? Over what does it extend in urban and in agricultural subjects respectively? In what cases is it still in force as to agricultural subjects?

12. What are the requisites of a regular marriage? Shortly describe the other ways in which marriage may be constituted.

13. What are the different classes of tutors, and how are they respectively appointed?

14. What are the provisions of the Criminal Law for preventing delay in the trial of accused persons?

15. What are the various classes of offences in which, under the Criminal Procedure Act, a previous conviction of one offence is an aggravation of any other? State the principal offences in each class.

3. CONVEYANCING—THREE HOURS.

(Sixteen questions : not more than TWELVE to be attempted.)

1. What are the characteristic features of the feudal system of land tenure? How far is it accurate to describe the present system of land tenure in Scotland as feudal? What lands in Scotland are held allodially?

2. Where a superior has feued out his lands, reserving the minerals, what is the effect of (a) a simple stipulation that he shall be entitled to work the minerals: (b) a stipulation that he shall, in addition, not be liable for any damage occasioned by such working? (Quote illustrative cases. Mention two statutory exceptions to the rule that minerals, unless specially reserved, pass with the subjects in which they are contained.

3. Distinguish carefully between registration for execution and registration for publication. Trace the history of the latter, indicating the steps by which it came to take the place, first of infeftment, and subsequently also of entry with the superior.

4. In how many ways, specifying them exactly, may an heir at the present day make up a title to the heritable estate of his ancestor who has died infeft and intestate?

5. A, infeft and entered, died leaving a general disposition in favour of X and Y. Describe the various methods of completing the title of X and Y (a) in 1800, (b) in 1870, and (c) in 1880.

6. Write a note on the history of entry with the superior. Describe the methods of entry by confirmation and entry by resignation. Was entry by confirmation competent in the case of burgage subjects?

7. Comment upon the effect of the implied entry introduced by the Conveyancing Act of 1874 upon the superior's right to demand casualties from his vassals.

8. What is meant by an Allocation of the Feu Duty? How is it effected and what are the respective interests of the superior and the feuar in the matter?

9. What are (1) Tinsel of the Feu, and (2) Tinsel of the Superiority? Describe their origin, purpose, and development. Is the latter now necessary or competent?

10. In what ways may a security for future advances of uncertain amount be constituted over land? Explain the nature, limits, and risks of such securities.

11. Describe the procedure prescribed by the Consolidation Act of 1868 for a bondholder who desires to exercise the power of sale contained in his bond.

12. How may a security holder become proprietor of the security subjects under the Heritable Securities Act of 1894?

13. Comment upon the transmission of the personal obligation in a Bond and Disposition in Security against parties acquiring the security subjects by succession or conveyance.

14. What is a prescriptive Search for Incumbrances? Indicate the considerations upon which it is based, and criticise the extent of the security which it affords to a purchaser of lands.

15. Define (1) a vested right, and (2) a right vested subject to defeasance. Frame a destination which has the effect of creating a vested right subject to defeasance. What is the effect of the interposition of (1) a simple liferent, (2) a liferent conjoined with a survivorship clause, (3) a liferent conjoined with a destination-over, upon the period of vesting of the fee of a legacy?

16. Write notes upon any *two* of the following cases, indicating the circumstances in which they arose, and the special points which they decided:

- (1) *Hamilton v. Bogle*.
- (2) *Hunter v. Boog*.
- (3) *Aiton v. Russell's Executors*.
- (4) *MacRitchie's Trustees v. Hislop*.
- (5) *Mounsey v. Palmer*.
- (6) *Lamont v. Rankin's Trustees*.
- (7) *The Heritable Reversionary Co., Ltd. v. Millar*.
- (8) *Dunbar's Trustees v. The British Fisheries Society*.

4a. PUBLIC INTERNATIONAL LAW—THREE HOURS.

(*One question to be omitted under heads A and B.*)

A.

1. What persons are British subjects? Notice the case of natives of Indian protected States and African Protectorates.

2. What rights are claimed by Great Britain over the seas adjacent to the British Islands?

3. Give a general outline of the duties of consuls, and show how they vary in different countries.

4. Give the principal rules for the interpretation of treaties.

5. Give a brief report of any two of the following cases: *The Franconia*; *Santa Lucia*; *The Maine Boundary*; *Direct U.S. Cable Co. v. Anglo-American Telegraph Co.*; *The Parlement Belge*.

B.

6. Define the terms : Soldier, Cartel, Angary, Exequatur, Spy.
7. What is a Commercial Blockade? Under what conditions will it be recognised by neutrals?
8. Discuss the nature of contraband in connection with Rice, Coal, Machinery, Oil.
9. What are the principal provisions of the Geneva Convention and St. Petersburg Declaration?
10. Give a brief report of any two of the following cases: The *Vigilantia*; The *Maria*; The *Circassian*; The *Indian Chief*; The *Peterhoff*.

C.

Candidates for a Law Degree should in addition write short essays on any *two* of the following topics :

- (a) Pacific Blockade.
- (b) The International position of the Suez Canal.
- (c) The right to capture private property at sea.
- (d) The application of the laws of war in wars with uncivilized peoples.
- (e) Codification of the Law of Nations.

4b. INTERNATIONAL PRIVATE LAW—THREE HOURS.

A.

(Omit ONE question.)

1. What criticism may be made of the phrase "Laws which concern public order"?
2. A domiciled Scotsman obtains a permanent appointment in New York, and resides in lodgings there. He arranges that his children (minors) remain in Scotland to complete their education, his wife also remaining there to look after the children. Discuss the question of domicil.
3. What law determines the power of a parent over his children?
4. A Scotsman leaves his wife in Scotland, acquires a domicile in America, and obtains a divorce there on a ground not recognized in Scotland. *Quid juris*?
5. Give a brief report of any two of the following cases: *Sottomayer v. De Barros*, *In re Bourgoise*; *Le Mesurier v. Le Mesurier*; *Cooper v. Cooper*; *Harvie v. Farnie*.

B.

(Omit ONE question.)

6. What is the Law of Flag? How is it applied?
7. Give the principal provisions of the Bills Act directly or indirectly dealing with the Conflict of laws.

8. What is the effect of a Scottish sequestration on moveables and land in England, Ireland, the colonies, and abroad?

9. State and illustrate the rule as to what wrongs may ground an action in the Scottish Courts.

10. A domiciled Englishman owes a debt to another domiciled Englishman. Six years after it is incurred the creditor sues for it in Scotland. The defender pleads that it is discharged by English law. Assuming the debt to be still enforceable in Scotland, discuss the defender's plea.

C.

(Omit THREE questions.)

11. Show whether the 117th Section of the Titles to Land Consolidation Act, 1868, applies to English mortgages.

12. Show how conflicts may arise between the Statutory Provisions of the Bills of Exchange Act, 1882, and of the Indian Bills Act, and how they may be solved.

13. Discuss the practical difficulties of making Nationality a test of capacity to act, and illustrate fully.

14. What principle as to matrimonial domicile has been adopted in the Married Woman's Property (Scotland) Act, § 1(1)? Discuss the difficulties it raises.

15. Definitions of Domicil.

4c. JURISPRUDENCE—THREE HOURS.

PHILOSOPHY OF LAW.

(ONE question to be omitted under heads A and B.)

A.

1. Discuss the proposition that Jurisprudence is a formal Science.

2. Define a right and give Holland's scheme of Analysis.

3. Classify obligations, and explain shortly the principle on which you proceed.

4. What subjects are treated by Holland under the title "Application of Law." Examine his views.

5. Give a scheme of subjects which might fall under Administrative Law. Explain why the subject is treated differently in Great Britain and the Continent.

B.

6. What is a legal fiction? Give any example in modern law.

7. Compare the institution of marriage with that of contract.

8. Discuss the nature of the contract of Insurance.

9. Explain on what principle the law fixes the various ages at which persons acquire capacity.

10. What is the purpose of a Bankruptcy Law? How is *Cessio Bonorum* used in Scotland?

C.

Candidates for Degrees in Law should write short essays on any two of the following topics :

- (a) The Workmen's Compensation Act.
- (b) The dangers of definition.
- (c) Law and Metaphysics.
- (d) The relation of the Church to the Law.
- (e) *Fiat justitia, ruat cælum.*

5. CONSTITUTIONAL LAW AND HISTORY—

THREE HOURS.

(Omit FOUR questions.)

N.B.—A separate paper is set for candidates who have attended the full course qualifying for LL.B.

1. Explain accurately what is meant by *ceorl*, *gesith*, *fyrd*, *hundred*, *folcland*, *compurgation*.

2. Estimate the relative importance of Anglo-Saxon and of Norman influences in moulding the English Constitution.

3. What classes or interests had Henry II. to contend with in carrying out his chief reforms?

4. What bearing (if any) had Magna Carta on the composition of the National Council?

5. Identify (giving approximate dates) the Mad Parliament, the Model Parliament, the Good Parliament, the Merciless Parliament, the Unlearned Parliament, and the Addled Parliament.

6. "The great importance of the Charter does not lie in the wisest of its provisions, but in the fact that it sprang from a re-arrangement of political forces." Explain and criticise this view of Magna Carta.

7. "Minorities were invariably favourable to the growth of the King's Council in power and organization." Criticise this dictum. Give illustrations.

8. Mention the chief events of constitutional interest in the career of Edward II. Did his reign mark any advance in the recognition of the powers of Parliament?

9. "For the 120 years during which the Tudors reigned England was under a despotic form of government." Explain, criticise, and illustrate this statement of a recent writer.

10. Compare the theories of Lord Chief Justice Coke and Lord Chancellor Bacon as to the position and duties of the judges in the seventeenth century.

11. Mention some of the causes of quarrel between Charles I. and his first three Parliaments.

12. Discuss the constitutional importance of the various legal questions raised in the Case of the Seven Bishops.

13. "The Act of 1832 had enfranchised the middle classes; the Act of 1867 placed the political power in the hands of the lower orders." Criticise these statements, giving the exact provisions of the Statutes thus characterised.

14. Sketch the genesis and development of Cabinet Government in England.

6. FORENSIC MEDICINE—TWO HOURS.

(Only FOUR questions to be answered.)

1. Comment upon (1) the circumstances in which a dead body is found, and (2) the position, direction, and character of the wounds upon it, as indicating whether death was suicidal, homicidal, or accidental. How may bruises and post-mortem staining be differentiated?

2. When two persons have perished together by a common calamity, and there is no direct proof as to which of the two was the survivor, what are the general presumptions as to survivorship applicable to the case, arising from the respective ages and sexes of the parties, and the mode of death?

3. Define insanity in the legal acceptance of the term. Wherein does the legal definition sometimes differ from the medical? In what ways may insanity be pled in answer to a criminal charge? Comment upon intoxication as indicating temporary insanity, and the effect which should be given to such a plea in a criminal charge.

4. What is the law respecting the sale of arsenic? How may it be obtained for homicidal purposes without infringement of the law? Describe the symptoms of poisoning by it, and some of the principal tests for its detection.

5. How far may association with a case of wounding be presumed from the presence and character of blood-stains (*a*) upon the clothing of a suspected person, and (*b*) upon an article of furniture? Give three important tests for blood.

VI.—FOR DEGREE OF B.D.

I. FIRST DEPARTMENT.

1. HEBREW.

FIRST PAPER—THREE HOURS.

I. Point and translate the following:

שָׁמַעְנִי אֵת הַדֹּבֶר הַזֶּה אֲשֶׁר דִּבֶּר יְהוָה עִלְיֶיךָ בְּנֵי יִשְׂרָאֵל
עַל כָּל הַמִּשְׁפָּחָה אֲשֶׁר הָעֵלִיתִי מֵאֶרֶץ מִצְרַיִם כְּאֵמֹר: רַק

אתכם ידעתי מכל משפחות האדמיה. על כן אפקד עליכם
 את כל עונותיכם: הילכן שנים יחדו בלתי אם יועדו; הישאג
 ארזה בעיר ושדק אין לך היתן כספר קולו ממוענתו בלתי אם
 לכד: התפוס צפור על פה הארץ ומוקש אין לה היעלה
 פה מן האדמיה ולכד לא ילכד: אם יתקע שופר בעיר ועם
 לא יתרחו אם תהיה רעה בעיר ותהיה לא עשה: כי לא
 יעשה אדני יהיה דבר כי אם גלה סודו אל עבדיו הנביאים:
 ארזה שאג מן לא ירח אדני יהיה דבר מן לא יבא:

II. Give the following in punctuated Hebrew :

And it came to pass after these things, that Abraham sat in the door of his tent, about the going down of the sun: And behold a man, bowed with age, came from the way of the wilderness, leaning on a staff. And Abraham rose and met him, and said unto him, Turn in, I pray thee, and wash thy feet, and tarry all night, and thou shalt arise early on the morrow and go on thy way. But the man said, Nay, for I will abide under this tree. And Abraham pressed him greatly: so he turned, and they went into the tent, and Abraham baked unleavened bread, and they did eat. And when Abraham saw that the man blessed not God, he said unto him, Wherefore dost thou not worship the most high God, Creator of heaven and earth? And the man answered and said, I do not worship the God thou speakest of, neither do I call upon His name: for I have made to myself a god, which abideth alway in mine house, and provideth me with all things. And Abraham's zeal was kindled against the man, and he arose and drove him forth with blows into the wilderness. And at midnight God called to Abraham, saying, Abraham, where is the stranger? And Abraham answered and said, Lord, he would not worship Thee, neither would he call upon Thy name, therefore I have driven him out from before my face into the wilderness. And God said, Have I borne with him these hundred, ninety and eight years, and clothed him, notwithstanding his rebellion against me; and couldst not thou, that art thyself a sinner, bear with him one night? And Abraham said, Let not the anger of the Lord wax hot against His servant: lo, I have sinned, forgive me, I pray Thee. And Abraham arose, and went forth into the wilderness, and sought diligently for the man, and found him, and returned with him to the tent; and when he had entreated him kindly, he sent him away on the morrow with gifts. And God spake again unto Abraham, saying, For this thy sin shall thy seed be afflicted four hundred years in a strange land: But for thy repentance will I deliver them; and they shall come forth with power, and with gladness of heart, and with much substance.

SECOND PAPER—THREE HOURS.

I. 1. Translate:—Isaiah xxxiii. 1—12.

2. Parse כהתימך (v. 1); תרשד (v. 1); נדרר (v. 3); נפצי (v. 3); נשמו (v. 8); יצתו (v. 12).

3. Parse כִּנְתָךְ (v. 1). The change of a letter gives a different reading which many prefer. What is it?

4. Give the syntax of כְּהִתְיַמֵּךְ שָׂדֶךְ (v. 1); אֶסֶף (v. 4); הַכְמַת (v. 6); יֵרֵא יִרְאָתִי הָיָא (v. 6); אֲבָל אֲמַלְכָה אֶרֶץ (v. 9); יֹאמְרִי (v. 10).

5. Remark critically and exegetically on אֶרְאֵלֶם (v. 7). Some Greek versions render ὁφθίμωσις αἰδοῖς. How was this rendering obtained?

6. State the arguments by which it has been attempted to disprove the Isaianic authorship of the chapter.

II. 1. Translate :—Ps. lxxvi.

2. Parse נָאֻר (v. 5); אֲשֶׁתִּוְלָכֶךָ (v. 6); נָמַר (v. 6); תִּדְרֹךְ (v. 11); יִרְבִּיכֶךָ (v. 12).

3. Give the syntax of יִרְהִי (v. 3); שְׁנֵתָם (v. 6); אֵתָה נִרְאָה אֵתָה (v. 8); וּרְכַב וָכֹס (v. 7). What other particles might be used for וְ...? Explain the full meaning of נִרְאָה (v. 8) and הִתְמַלֵּת (v. 11).

4. Remark on בְּשִׁלֶם (v. 3).

5. מִהִרְרִי-טֶרֶף. Of what different renderings does the בִּקְיָא admit?

6. Give an exegetical note on vs. 11. *b*. The LXX. render תִּהְיֶה by ἐσπῶσαι σοι. What would this be in Hebrew?

7. Explain the title ὁ πρὸς τὸν Ἀσσύριον which the LXX. prefix to the Psalm.

8. State the arguments that have been advanced for the post-Exilic origin of the Psalm.

2. NEW TESTAMENT EXEGESIS—THREE HOURS.

1. State the various forms in which the theory of a composite origin of the book of Acts has been held. What are the chief arguments in support of the unity of its authorship?

2. What phenomena in the extant writings of Luke may be adduced in favour of the view that the book of Acts is the second member of an intended trilogy?

3. Compare Matthew viii. 24—26, with the corresponding passage in Luke, and show that the differences of expression may have originated in the different life-experience of the two evangelists.

4. Compare Matthew xv. 22—28, with Mark vii. 25—30, and note the differences. If these differences, or any of them, result from the different dogmatic standpoints of the narrators, define these two standpoints. What is the meaning of the verb ἰπρωτᾶν in other passages of Matthew and Mark? What is the peculiarity of its use in these two passages, and what conclusion might be drawn from the peculiarity? What is the course of thought in Matthew xv. 27?

5. Translate Gal. iv. 21—26, adding full exegetical notes.
 6. Translate Philipp. ii. 12—18. Comment upon the connecting particles and the figurative expressions so as to bring out the train of thought.
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3. APOLOGETICS—THREE HOURS.

THE APOLOGETICS OF THE SECOND AND EIGHTEENTH CENTURIES.

1. Explain and compare the Apologetic standpoints of the Second and Eighteenth Centuries, showing in what they agree and differ, and indicate the value for contemporary theology of the method and discussions of the leading Apologists.
2. Give an account of the Text and Contents of the Apology of Aristides, *or* (alternatively) of the Apology of Athenagoras.
3. Summarise Justin Martyr's Dialogue with Trypho, and show how far its arguments were accepted or modified by the Apologists of the Eighteenth Century.
4. Explain Butler's method; examine the leading objections taken to it; and show how he applies it (1) to the present System of Moral Government, and (2) to the Revelation of the Mediatorial work of Christ.

THE PHILOSOPHY OF RELIGION.

5. State and compare the views of the nature of Religion given by Kant and Ritschl respectively.
6. Contrast and criticise the definitions of Religion given by Hegel and Schleiermacher. Refer to the sources.

THEORIES OF CHRISTIANITY.

7. Trace historically and examine the theory that Christianity is a special Revelation of Doctrines attested by Miracles and Prophecies.
8. Review Hegel's representation of Christianity as the Absolute Religion, and examine his view of the historical evolution of Religion.
9. State clearly and examine any *two* of the leading theories of Christianity in the Nineteenth Century that define it specifically by reference to Christ's Person and Work.

ANTITHEISTIC THEORIES, AS ALTERNATIVE TO THEORIES OF CHRISTIANITY.

7. State and review the fundamental positions of modern scientific Materialism. Refer to its chief expounders.
8. Give a similar review and examination of Pantheism in the Nineteenth Century.
9. State and examine the Pessimism of Schopenhauer and Von Hartmann.

II.—SECOND DEPARTMENT.

1. DIVINITY—THREE HOURS.

(NINE questions only to be answered.)

1. Show how the Christological Controversies of the Ancient Church took their rise, and point out the leading factors and modes of thought that determined their form and development. Define clearly the distinctive positions of Docetism, Apollinarianism, Nestorianism, Eutychianism, Monophysitism, and Monothelitism.

2. Give a summary analysis and criticism of the Chalcedonian Christology, and show the positions taken towards it in the Confessions and Theology of the Protestant Churches.

3. Review some of the chief attempts in the Nineteenth Century to work out a speculative reconstruction of the Christological dogma, and in their light consider Kaftan's statement that "the forms of the ancient Christology have lost their significance for the Christian Faith."

4. Give an account and criticism of the Christology of Schleiermacher and Ritschl.

5. Show how Christology and Soteriology have been related to each other at different periods and in different systems, and indicate what you consider to be the cardinal questions, the limits, the available methods, and the special interest connected with each of them in contemporary Theology.

6. State, criticise, and trace the historical influence of the Theories of the Atonement of (1) Anselm, (2) the Socinians, (3) Grotius or Maurice.

7. Show how, according to the System of Christian Theology, the Revelation and Religion of the Old Testament in their essential elements are fulfilled in the Person and Work of Christ. Refer to the *Munus Triplex*.

8. Sketch the Theological System of the Pharisees in the time of Jesus, and show from the Synoptic Gospels how He dealt with it, and how it affected the form and contents of His teaching.

9. Summarise the Teaching of Jesus in the Synoptic Gospels concerning (1) the Law, (2) the Kingdom of God, (3) the Fatherhood of God. Refer to recent discussions and show the progress made in the elucidation of these topics.

10. Summarise, under reference to the cardinal expressions and passages, the Teaching of Jesus in the Synoptic Gospels concerning His own Person and Work, and show how far a doctrine of Pre-existence, Incarnation and Atonement can be founded upon it.

11. How does Paul in the Epistle to the Romans establish the fact of Universal Sinfulness, and how does he represent the relation of the Gospel of Christ to the Ethnic and Jewish Religions? How is Paul's discussion of the Mosaic Law related to the teaching of Jesus concerning it?

12. Summarise Paul's discussion of (1) Justification by Faith, (2) the contrast between Adam and Christ in chap. v., (3) the Election of Grace, (4) the Principle of Holiness.

2. CHURCH HISTORY—THREE HOURS.

1. What limitations on the autonomy of the Church of England accompanied her liberation from the domination of the Pope?

2. What led John Knox to visit England? What positions did he hold there? And what traces remain of his influence on the Church of England?

3. Mention the Articles of Reformation laid before the Provincial Council of Edinburgh, 1559.

4. What Service-books were in use in the Church of Scotland in the course of the Sixteenth Century? In what circumstances did each come in?

5. Explain the circumstances in which, twice, there was great destruction of ecclesiastical buildings in Scotland in the Sixteenth Century; and name some of the chief of the churches which perished on each occasion.

6. Sketch the career of Zuinglius.

7. What was Calvin's attitude towards (a) the use of a prayer-book in public worship; (b) the Book of Common Prayer; (c) the Lay Elder-ship; and (d) the Sacraments?

8. Macaulay has called Henry IV. of France "the best of kings." Criticise this judgment.

9. Characterise the Irish Reformation, pointing out the various circumstances that may explain the limited success of the movement in Ireland.

10. Give a brief account of any *five* of the following: Coligny; the Cardinal of Lorraine; Farel; Adam Loftus; John Bale; John Major; Quentin Kennedy; Bullinger; Somerset; Tunstall; Joan Bocher; John Rogers.

3. BIBLICAL CRITICISM.

a. TEXTUAL CRITICISM—Two Hours.

1. In what circumstances, according to Griesbach, is the longer reading to be preferred to the shorter?

2. What is meant by the phrase *type of text*? What are the criteria for determining the age of a MS. and of a text respectively?

3. "The more ancient reading is generally the reading of the more ancient MSS." What proof can be adduced in support of this canon?

4. Distinguish between Intrinsic Probability and Transcriptional Probability, as these terms are used by Westcott and Hort. Give a classification of various readings, and deduce from it canons for the elimination of transcriptional changes.

5. Trace the history of Recension theories. State and examine the arguments used by Westcott and Hort in support of their theory of a Syrian Recension.

6. On what grounds do the recent editors of the New Testament regard with favour the group **SBDL**? What facts seem to point to these and kindred MSS. having been derived mediately or immediately from a MS. with a corrupt text? What are the characteristics of the group **AKMH** in the Gospels? Describe any three MSS. in these groups.

7. Give Tischendorf's rules for the constitution of the text of the New Testament, with examples illustrative of each.

b. HERMENEUTICS—Two Hours.

1. Is Textual Criticism a part of Hermeneutics? State precisely the scope assigned to Hermeneutics by those who answer this question (*a*) in the affirmative, (*b*) in the negative. Which view do you take? Justify your answer.

2. State the general causes by the operation of which several meanings have come to be attached to certain words. When a word having several meanings occurs in a passage, how is the particular meaning in that passage to be ascertained?

3. "There is a colloquial element in New Testament Greek." Explain this statement. Name the books which make the nearest approach to a literary style.

4. What is the chief difference between Classic Greek and New Testament Greek in respect of the structure of sentences? Account for this difference on a psychological basis. Mention some of the apparent anomalies in New Testament grammar which may thus be explained.

5. What facts in the life and circumstances of Paul throw light upon the style of his letters?

6. State the causes, general and special, which lead to the use of figurative language, and indicate the precautions to be taken in its interpretation.

7. Define Parable, and distinguish it from Fable on the one hand and Allegory on the other. "The Parables of our Lord are either symbolical or typical." Explain and illustrate this statement.

8. Compare the School of Alexandria with the School of Antioch, and account for the rise of their respective methods of interpretation. Give some account of the leading representatives of the two schools.

VII. EXAMINATIONS FOR HISTORICAL PRIZES.

I.—LUKE.

A. ROMAN HISTORY.

1. Give some account of the elements out of which the population of early Rome was formed, and of the manner of their consolidation.

2. Compare the position and powers of the King with those of the Consuls.

3. Explain the precise meaning of the following terms: *Curia*, *interrex*, *magister equitum*, *intercessio*, *praetor peregrinus*, *municipium*, *senatores pedarii*.

4. Assign dates to the following laws, and explain briefly their effect: *Lex Valeria de prorogatione*, *the Twelve Tables*, *Leges Valeriae et Horatiae*, *Lex Canuleia*, *Leges Liciniae Sextiae*, *Lex Hortensia*.

5. Describe the battle of Cannae, and the campaign of Zama.

6. Compare the agrarian questions of the early Republic with those of the Gracchan period.

7. Estimate the effect of sea-power upon the results of the great wars of Rome at different periods.

8. Give a brief account of the career of Marius, with dates, noting exactly the vicissitudes in the Civil War between him and Sulla.

9. Compare the Franchise Question as it affected Italy in B.C. 90 with the same question among ourselves at the time of the passing of the Reform Bill of 1832.

10. How far may Julius Caesar be considered the creator of the Empire?

11. On what grounds has Tacitus' estimate of the character and government of Tiberius been contested?

12. Estimate the effect of the establishment of the Empire upon the prosperity of the provinces.

13. Give some account of: Seneca, Tigellinus, Agricola, Marcus Aurelius.

B. GREEK HISTORY.

I. Annotate the following passages, translating when necessary:

1. ὃς ἐκέλευε “κοινῷ στόλῳ Ἰῶνας ἀερθέντας πλέειν ἐς Σαρδῶν, καὶ ἔπειτα πόλιν μίαν κτίζειν πάντων Ἰώνων. καὶ οὕτω ἀπαλαχθέντας σφέας δουλοσύνης εὐδαιμονήσειν. νήσων τε ἀπαυέων μεγίστην νεμομένους, καὶ ἀρχοντας ἄλλων.”

Who was responsible for this proposal? On what occasion was it made? Show from subsequent history how strong a hold the idea had on the Greek imagination.

2. τὸ δὲ ὄρκιον ὧδε εἶχε, “Ὅσοι τῷ Πέριππῳ ἔδωσαν σφραγῆς αὐτοὺς Ἕλληνες ἔοντες, μὴ ἀναγκασθέντες, καταστάντων σφί εἰ τῶν πρηγμάτων, τοιούτους δεκατεῖναι τῷ ἐν Δελφοῖσι θεῷ.”

Under what circumstances was this vow registered? Was any attempt made to fulfil it?

3. Καλλίαν τὸν Ἰππονίκου, ταύτην τὴν ἐπὶ πάντων θρυλονμένην εἰρήνην πρεσβεύσαντα.

State briefly the evidence for and against the authenticity of the story here referred to.

4. ὁ δὲ ἀνείλεν αὐτοῖς, ὡς λέγεται, κατὰ κράτος πολεμοῦσι νίκην εἶσεσθαι, καὶ αὐτὸς ἔφη συνλλάψεσθαι καὶ παρακαλοῦμενος καὶ ἄκκλητος.

On what occasion was this response given? Mention other examples of the political bias of the Delphic oracle.

5. μετρία γὰρ ἦ τε ἐς τοὺς ὀλίγους καὶ τοὺς πολλοὺς ξύνγκρασις ἐγένετο, καὶ ἐκ πονήρων τῶν πραγμάτων γενομένων τοῦτο πρῶτον ἀνήνεγκε τὴν πόλιν.

To what constitution does this refer? Indicate shortly its character, and its fate.

6. βοιλή δὲ κληροῦται φ', ἡ ἀπὸ τῆς φυλῆς ἐκάστης, πριτανεῖαι δ' ἐν μέρει τῶν φυλῶν ἐκάστη καθ' ὃ τι ἂν λάχωσιν.

Explain the technical terms.

7. καὶ τὴν εἰκοστὴν ὑπὸ τοῦτον τὸν χρόνον τῶν κατὰ θάλασσαν ἀντι τοῦ φόρου τοῖς ὑπηκόοις ἐποίησαν, πλείω νομίζοντες ἂν σφίσι χρήματα οὕτω προσιέναι.

When did the Athenians take this step? What light does it throw on the extent of ancient commerce?

II. Answer not more than FOUR of the following questions:

1. Describe the chief lines of communication by land in the Greek peninsula, and illustrate their connection with the military history of the country.

2. What are the main difficulties, topographical and otherwise, that lie in the way of accepting the traditional account of the battle of Marathon?

3. "The Persians owed their failure in Greece to their own faults." Illustrate this from the expedition of Xerxes.

4. Explain the following expressions: Harmost, Sophist, Dorian Migration, Sacred War, Cleruchy, Perioeci, Thetes.

5. What was the importance of the changes introduced by Pericles into the constitution of Athens?

6. Give a short account of Cimon, Iphicrates, and Phocion.

7. "The atrocities of the Peloponnesian War were due to the fact that it was a war of classes as well as of states." Examine this statement.

8. Discuss the merits and the defects of the Spartan Constitution.

9. Account for the rapid rise of the Theban Supremacy.

10. Compare the achievements of Philip of Macedon with those of Alexander the Great.

II.—GLADSTONE.

1. Explain the organisation of an English 'manor,' and explain the chief theories that have been advanced as to its origin.

2. "The Danish and Norman Conquests strengthened instead of weakening the ascendancy of Wessex." Discuss this statement.

3. Compare the character and aims of Simon de Montfort with those of Thomas of Lancaster.

4. Estimate the results of the War of Independence upon the internal development of Scotland.

5. Examine the respective claims of Edward IV. and Henry VII. to be regarded as the founder of personal monarchy in England.

6. "The specially constitutional work of Henry VIII. was the admission of the House of Commons to a preponderating influence in Parliament." Explain and illustrate.

7. How far may the Great Rebellion be said to have produced lasting results?

8. Estimate the importance of the Revolution of 1688-9 in the history of Ireland.

9. Illustrate and account for the subsidence within the 18th century of the discontent excited in Scotland by the Act of Union.

10. Compare the War of the Spanish Succession with the Seven Years' War as epochs in the expansion of England.

11. Examine the part played by Great Britain in the war against Napoleon after 1803, and show how it contributed to the ultimate defeat of the French.

12. Estimate the claims of Sir Robert Peel to be regarded as a great statesman.

XIII.—VACATION EXERCISES, Etc.

FOR 1899-1900.

HEBREW AND SEMITIC LANGUAGES.

Prizes are offered—

1. For an original composition in Hebrew.

2. For readings in the Old Testament Scriptures.

Professions to be given in, in writing, not later than 5th Nov., 1899.

MORAL PHILOSOPHY CLASS.

A prize is offered for the best examination on Plato's *Republic* (Davies and Vaughan's translation). Students are recommended to read Bosanquet's *Companion to Plato's Republic* and vol. ii. of Nettleship's *Philosophical Lectures and Remains* in connection with the translation. The competition is open to students entering the ordinary Moral Philosophy Class in Session 1899-1900.

LOGIC CLASS.

(For Students of the Logic Class, Sessions 1897-98 or 1898-99.)

Two prizes are offered: (1) one for an examination in early Greek (pre-Platonic) Philosophy. [Books recommended: Ritter and Preller's *Historia Philos. Græce*; Burnet's *Early Greek Philosophy*; Zeller's *Pre-Socratic Greek Philosophy*.]

(2) for an examination in Leibniz's Metaphysic and Theory of Knowledge. [Books recommended: *Leibniz' Monadology*, by Latta; Leibniz, *La Monadologie*, ed. by Boutroux.]

ENGLISH LITERATURE.

A prize is offered for the best examination on *The Golden Treasury of Songs and Lyrics*. A paper will be set, and candidates will also be expected to know by heart poems extending to twenty pages of the volume. The examination is open to students entering the ordinary English Literature Class in Session 1899-1900.

WOMEN'S DEPARTMENT.

1. Arnold's Essays in Criticism, 1st and 2nd Series. The examination is open to members of the Class of 1898-99. The questions will not be technical in character.

2. The Golden Treasury (First Series). Students will be expected to be acquainted with both Text and Notes. This examination is open to intending members of the Class of 1899-1900.

GREEK CLASSES.

Open to any member of the Greek Class, Sessions 1898-99 and 1899-1900.

1. Greek Prose—Mungo Park, *Travels*, in Cassell's National Library, vol. I., pp. 94—98, from “*We proceeded without stopping*” to “*watches the motions of the enemy*.” (Either Herodotean or Attic style will do.)

2. To learn by heart Aeschylus' *Prometheus*, omitting the lyrical passages.

3. To learn in the same way *Iliad* VI.

4. A written examination in Aristophanes, *Acharnians*, to be held in October, 1899.

5. A written examination in Holm's *History of Greece*, vols. I. and II.

The same student may enter for all the above competitions. Several prizes may be given for each competition. Junior students will be judged on a more lenient standard.

The prose to be sent in by 24th October, 1899.

HUMANITY CLASS.

Prizes will be given for Vacation Exercises as follows :

- I. Open to all students who shall enrol in the Senior Class of 1899-1900 for the best examination in the following subjects :—
 1. Livy, Book XXI.
 2. Virgil, *Georgics* III. and IV.
- II. Open to all members of the Middle Class, 1898-99 :—
To learn by heart Virgil, *Georgic* I., lines 1—350.
- III. Open to all members of the Senior Class, 1898-99 :—
 1. For Latin Prose—A short Latin Essay of about ten ms. pages on the following subject : “Contrast the life and government of Augustus with those of Tiberius.”
 2. To learn by heart Horace, *Odes* I.
- IV. Open to all students who shall enrol in the Senior Class of 1899-1900 :—

For the best translation into Latin Prose of the following passage from *The Talisman*, chap. xix., near the end of Richard's Speech to the Council, from “*And it is even so*” down to “*It is the will of God.*”

The Examination in the above subjects will be held early in November, 1899. The exercises must be sent in to the Professor on or before 1st November. Each exercise must bear a motto and be accompanied by an envelope bearing the same motto, with the writer's name inside, together with a statement that the exercise is his own unaided work.

CLASS OF BOTANY.

A prize is offered to matriculated students who have passed through the Class of Botany in the University or Queen Margaret College, for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous Plants, to be named after Hooker's *Students' Flora of the British Islands*. The specimens must have been collected upon the mainland of Scotland, or upon the Scottish Islands, between 20th April, 1898, and 15th October, 1899, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 15th October, 1899, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself in Scotland, and within the period above stated, and that they have been named by him without assistance, save that derived from books on Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

Students of the first year in Botany are informed that a similar prize will be offered in October, 1900, and are advised to begin collecting for that competition in April, 1899.

XIV.—ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT.

FROM 1ST JUNE, 1898, TO 31ST MAY, 1899.

9th June, 1898.—The Court met. Present—Sheriff Berry (in the chair); the Lord Provost, David Murray, LL.D.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Sir J. N. Cuthbertson, LL.D.; Professor Jack; Professor Sir William Gairdner, K.C.B.; and Professor Stewart. Minute of meeting of the Finance Committee of 7th June, 1898, was read and adopted, dealing, *inter alia*, with Randolph Trust funds, various grants, payment of accounts and salaries. Minute of meeting of the Works Committee of 5th June was read and adopted, dealing, *inter alia*, with the appointment of the Master of Works at the University. Minute of meeting of the Recognition Committee of 5th June was read and adopted, and the Court agreed to recognise for the purpose of graduation in medicine the lectures of John Carswell, L.R.C.P.E., L.F.P.S.G., Anderson's College Medical School, on Mental Diseases or Insanity, and the lectures of J. R. Whitaker, M.B., Surgeon's Hall, Edinburgh, on Anatomy and Practical Anatomy. There was submitted a letter from Principal Caird, together with a petition for leave to retire on the usual retiring allowance. The Court accepted the Principal's resignation as from 1st August next with a feeling of deep regret, and gave instructions for the preparation of a special letter to be sent to the Principal expressing the Court's appreciation of the distinguished services he has rendered to the University for a long period of years, and their sense of the great loss which the University is about to sustain. The Court further fixed the amount of the Principal's retiring allowance, and instructed the Secretary to intimate the vacancy to the Secretary for Scotland. The following lecturers were appointed at Queen Margaret College for another year:—James Blyth, Natural Philosophy; Dr. Charles Workman, Pathology; Thomas Gray, Chemistry; J. Hogarth Pringle, Surgery; Dr. A. Maitland Ramsay, Diseases of the Eye; Dr. Alexander Tille, German Language and Literature. The following appointments were also renewed for another year:—Waltonian Lecturer and Lecturer on the Eye, Dr. Thomas Reid; Lecturer on Insanity, Dr. Yellowlees; Lecturer on Diseases of the Throat and Nose, Dr. Walker Downie; Lecturer on Diseases of the Ear, Dr. Thomas Barr. The Court appointed Peter Pinkerton, M.A., Allan Glen's School, Glasgow, Additional Examiner in Physics for Degrees in Medicine and Science for three years from 1st October next. The Court had under consideration proposed regulations and constitution of the Students' Representative Council, and approved of the same under Ordinance No. 60, section 2. In view of the new ordinance of

the Commissioners establishing a new honours group in Economic Science, and the provision that a student preparing for such shall have the option of attending fifty lectures on the History of Civil Law, the Court approved of an arrangement by which the Lecturer on Civil Law is to deliver fifteen additional lectures on the History of Civil Law, which, taken along with thirty-five lectures of the Ordinary Civil Law Class at present devoted to the History of Civil Law, make up the fifty lectures required, and fixed the fee. It was also resolved that the additional fifteen lectures in question should be open to those members of the Civil Law Class who choose to attend, without the payment of an extra fee. An Excerpt Minute of Senate was submitted, showing the return of students in the qualifying and non-qualifying classes of Latin, Greek, and Mathematics. The Court appointed representatives to meet a Committee of the Glasgow International Exhibition, 1901, with regard to the proposed use of the University ground for Exhibition purposes. A report by the committee appointed on 5th May last was submitted, reporting as to certain details arranged regarding the site of the new Botanical Laboratory. The Court approved of certain proposals of the Senate to be intimated in the Calendar regarding granting of Degrees in Medicine with distinction. The Secretary submitted copies of a petition by the trustees of the late William Anderson to the Court of Session for leave to vary the provisions of his trust disposition and settlement regarding the assisting of students to a higher education in establishing bursaries by opening these privileges to women. The Court resolved not to oppose the suggestion. Intimation was received of the presentation to the University Museum by Miss Hunter Baillie of a portrait of the late Joanna Baillie by Masquerier, and that the Museum is now in possession of a complete set of portraits of the Hunter Baillie family. Intimation was also received of the presentation to the Museum of a valuable Roman Stone and Pedestal by Alexander Whitelaw, Esq., of Gartshore. The Secretary was instructed to thank the donors for their valuable additions to the Museum.

23rd June, 1898.—The Court met. Present—Sir J. N. Cuthbertson, LL.D. (in the chair); David Murray, LL.D.; D. C. M'Vail, M.B.; Professor Jack; Professor Sir Wm. Gairdner, K.C.B.; Sheriff Berry; and Professor Stewart. The Court resolved to appoint a Lecturer on *Materia Medica* at Queen Margaret College, and the Secretary was instructed to advertise. In answer to a letter from the Secretary of the Athletic Club, the Court agreed to lay down two additional tennis courts to the south of the existing courts, in place of those which will be disturbed by the building of the new Botanical Laboratory.

14th July, 1898.—The Court met. Present—The Lord Provost (in the chair), David Murray, LL.D.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Professor Jack; Professor Sir Wm. Gairdner, K.C.B.; Sheriff Berry; and Professor Stewart. Minutes of meetings of the Works Committee of 23rd June and 9th July, dealing with the appointment of a new master of works, were read and adopted. Minute of meeting of the Finance Committee of 12th July, dealing with payment of quarterly accounts, was read and

adopted. Intimation of the appointment of Professor Story as Principal of the University as from 1st August next was received. A letter of resignation from Professor Story from the Chair of Church History as from 1st August next was received and accepted, and the Secretary was instructed to intimate the vacancy of the Chair of Church History to the Secretary for Scotland. M. Alfred Mercier was re-appointed Lecturer on French Language and Literature for one year as from 1st October next. Mr. Adolphus A. Jack was re-appointed Lecturer on English at Queen Margaret College for three years from 1st October next. Statistics of entries, passes, and rejections at the Degree Examinations for March-April last, together with copies of the Degree Examination papers, were laid on the table.

25th July, 1898.—The Court met. Present—Sheriff Berry (in the chair); D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson, LL.D.; Professor Jack; Professor Sir William Gairdner, K.C.B.; and Professor Stewart. The Court appointed William MacLennan, M.B., 3 Buckingham Terrace, Glasgow, Lecturer on Materia Medica and Therapeutics at Queen Margaret College, for one year from 1st October next. The Court remitted to the Senate specially to consider regarding the dates for the final qualifying examination for degrees in medicine for next year. The Court had under consideration the Draft Commission of the new Principal, and made certain suggestions regarding the same. Intimation was received of the resignation of the Muirhead Demonstrator, and certain arrangements as to Assistants to the Professor of Physiology in consequence thereof were approved. A report of the Museums Committee was submitted and approved, dealing *inter alia* with the loan of Rembrandt's sketch of the Entombment to the Antwerp Exhibition, and with an arrangement for displaying the Roman Stones and Clyde Canoes.

30th September, 1898.—The Court met. Present—Sheriff Berry (in the chair); the Lord Provost; David Murray, LL.D.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Sir J. N. Cuthbertson, LL.D.; Professor Jack; Professor Sir William Gairdner, K.C.B.; and Professor Stewart. A letter was submitted from M. Mercier, intimating his resignation as Lecturer on French Language and Literature. The Court accepted M. Mercier's resignation as from 15th October, 1898, and appointed M. Charles Martin, Lecturer on French Language and Literature for one year from 15th October, 1898.

6th October, 1898.—The Court met. Present—The Principal; the Lord Provost; David Murray, LL.D.; James Colquhoun, LL.D.; Rev. J. W. King, D.D.; D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson, LL.D.; Professor Jack; and Professor Stewart. The commission of the Very Reverend Principal Story, D.D., LL.D., having been presented and read with all due respect, the new Principal was received and welcomed to the meeting, and in the absence of the Lord Rector took his seat as chairman. Minute of meeting of the Works Committee of 25th July, 1898, was read and adopted, dealing with the heating of the new buildings at Queen Margaret College,

repairs at the Master of Works' house, and other matters. Minutes of meetings of the Finance Committee of 7th September and 4th October, 1898, were read and adopted, dealing *inter alia* with University investments, insurances, and payment of accounts. The Court appointed Dr. Colquhoun and Professor Sir William Gairdner to represent them as governors of the Victoria Infirmary for the following year. On the recommendation of the various professors the University assistants were appointed for the following year. The various examiners for the preliminary examinations were re-appointed to hold office for a year from 1st February next. The following were appointed representatives for one year from 1st February, 1899, on the Joint Board:—Professor Bradley (English), Professor Ramsay (Classics), Mr. Gibson (Mathematics and Dynamics), M. F. J. Amours (Modern Languages). The Court appointed M. Charles Martin and Dr. Alexander Tille lecturer examiners in French and German respectively for the following year. The following were appointed the representatives of the Court on the Committees named, viz.: Library Committee—Sheriff Berry, Rev. Dr. King, and Emeritus Professor Dickson; Museums Committee—Dr. Cameron and Dr. M'Vail; Observatory and Laboratories Committee—The Lord Provost and Sir James King. Sir William Gairdner was re-appointed as representative of the University of Glasgow on the General Medical Council for five years from 9th November, 1898. The Secretary reported correspondence which had taken place with the Secretary for Scotland regarding the Commission of Dr. Cooper, the new Professor of Ecclesiastical History, and reported that the same had been adjusted. A letter was submitted intimating the gift to the Hunterian Museum of sixteen Greek vases from Mrs. Eustace Smith, Algiers, and the Secretary was instructed to convey the thanks of the Court to Mrs. Smith for her gift.

10th November, 1898.—The Court met. Present—The Principal (in the chair); David Murray, LL.D.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson, LL.D.; Professor Jack; Sheriff Berry; and Professor Stewart. Minutes of meetings of the Works Committee were read and adopted, dealing with repairs on the University buildings, professors' houses, and other matters. Minute of meeting of the Finance Committee of 8th November was read and adopted, dealing with University loans, payment of taxes and accounts, and other matters. Minute of meeting of the Recognition Committee was read and adopted, and the Court agreed to recognise for the purpose of graduation in medicine the lectures of Dr. Hugh Galt on Forensic Medicine and Public Health at Saint Mungo's College, Glasgow; the lectures of Dr. W. Ernest Thomson on Physiology at Anderson's College Medical School, Glasgow; and the lectures of Dr. Robert A. Fleming on Practice of Medicine at the School of Medicine, Edinburgh. The Court appointed Mr. Matthew Arthur, Fullerton, Troon, and Mr. Alan E. Clapperton, writer, Glasgow, to represent them as managers of the Western Infirmary for the following year. The Court re-appointed Norman D. Smith, lecturer on Logic, and R. A. Duff, lecturer on Moral Philosophy, both at Queen Margaret College. The Court agreed to recognise the University of Louvain

under Ordinance 23, section 4 (2), for the purpose of graduation in Science in Engineering. A representation by the General Council regarding some points in the University accounts was remitted to the Finance Committee. Working plans of the new Botanical Laboratory were submitted and approved, and measurers appointed to prepare schedules and receive offers. A Committee was appointed to receive the offers and report.

8th December, 1898.—The Court met. Present—The Principal (in the chair); the Lord Provost; Sir James King, Bart.; David Murray, LL.D.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Professor Sir William Gairdner, K.C.B.; Sheriff Berry; and Professor Stewart. Intimation was received of the election by the Senate of Professor Adamson as assessor in the University Court, to hold office for four years from 28th November, 1898. Professor Adamson, being present, was welcomed, and took his seat. Minute of meeting of Committee on Medical School Extension was read, and the Court approved of certain arrangements proposed therein for providing a laboratory in connection with the class of *Materia Medica*. The Finance Committee minute of 6th December was read and adopted, dealing *inter alia* with College investments, payment of tradesmen's quarterly accounts, and representations by the General Council regarding University accounts. Minute of meeting of the Works Committee of 7th December was read and adopted, embodying report by the Master of Works, dealing with cases for class apparatus, heating coils in class-rooms, water meters, and other matters. A report of Committee was approved proposing to open post-graduate courses to women. An excerpt minute of Senate regarding work of arts and law examiners was submitted and approved, subject to certain alterations. Dr. D. C. M'Vail was appointed director of the Glasgow Samaritan Hospital for Women for next year. The Court appointed Mr. James Colville, M.A., D.Sc., 14 Newton Place, as examiner in English for the preliminary examination for three years from 1st February next. A resolution in the following terms was proposed and sent to the Senate for their report:—"That the standard of examination in the subjects for the degree of B.L. shall be the same as that in the same subjects for the degree of LL.B." An amendment in their Constitution, proposed by the Students' Representative Council, was approved. A report by the Museums Committee was received and approved, dealing with re-arrangement of the pictures. The Court had under consideration certain recommendations of the House Committee of the Senate, and remitted same to be dealt with. The Court approved of the appointment by the Senate of Hugh Galt, M.B., C.M., Glasgow, as a Research Fellow in the University of Glasgow. Owing to the illness of Professor Coats a Committee was appointed to make temporary arrangements for conducting the Pathology Classes during the remainder of the session.

12th January, 1899.—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; David Murray, LL.D.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson, LL.D.; Professor Sir William Gairdner, K.C.B.;

Sheriff Berry; Professor Stewart; and Professor Adamson. The Court resolved to minute an expression of their deep regret on learning of the death of their colleague, the Rev. J. W. King, D.D., who for many years was a member of the Court, and resolved to prepare a minute of condolence to be forwarded to Dr. King's relatives. Minutes of meetings of Committee of 17th and 21st December, 1898, making arrangements for conducting the Pathology Class during Professor Coats's illness, were read and approved. Minute of meeting of the Finance Committee of 10th January, 1899, dealing with payment of accounts, proposal for loan, and other matters, was read and adopted. The Court adopted the report of a Committee recommending the approval of certain clauses proposed by the General Medical Council to amend the Medical Acts, granting penal and disciplinary powers over members. William A. Lindsay, M.A., B.Sc., F.C. Training College, Glasgow, was appointed additional examiner in mathematics and natural philosophy for degrees in arts and science. The following additional examiners in medicine for degrees in medicine were also appointed:—George A. Henderson, M.A., D.Sc., Professor of Chemistry, Glasgow and West of Scotland Technical College (Chemistry); J. Arthur Thomson, M.A., F.R.S.E., Zoological Laboratory, The New School, Edinburgh (Zoology); William Murrell, M.D., F.R.C.P., 17 Welbeck Crescent, Cavendish Square, London, W. (Materia Medica and Therapeutics); Alexander D. Mackellar, M.D., F.R.C.S., 79 Wimpole Street, Cavendish Square, London, W. (Surgery, Systematic and Clinical); and J. Lindsay Steven, M.D., 16 Woodside Place, Glasgow (Practice of Medicine, Systematic and Clinical). All these appointments were made for three years from 1st January, 1899. A letter from the honorary secretary of the Students' Representative Council, regarding lighting and ventilation of class-rooms, was remitted to the Works Committee.

24th January, 1899.—The Court met. Present—The Principal (in the chair); David Murray, LL.D.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Sheriff Berry; Professor Stewart; and Professor Adamson; attending Professor Bower. On a report by the Committee appointed on 10th November last, the Court accepted various contractors' tenders for the building of the Botanical Laboratory. It was reported that Dr. Ross was at present unable, through illness, to conduct the class on Education, and it was remitted to a Committee to make temporary arrangements for carrying on the class till Dr. Ross' recovery.

9th February, 1899.—The Court met. Present—The Principal (in the chair); David Murray, LL.D.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson, LL.D.; Professor Sir William Gairdner, K.C.B.; Sheriff Berry; Professor Stewart; and Professor Adamson. Minute of meeting of the Finance Committee was read and adopted, dealing *inter alia* with receipt of £1000 bequeathed by the late William Gardiner, M.D., Ashton-under-Lyne, for the purpose of founding a bursary for students in Chemistry, Physiology, Physics, German, and French. Minute of meeting of the Works Committee was read and adopted, dealing *inter alia*

with various repairs on the University buildings. The Court appointed the following additional examiners in law :—A. M. Hamilton, M.A., LL.B., advocate, 7 Woodside Terrace, Glasgow (Scots Law, Civil Law, and Mercantile Law); and Hugh Pattison M'Millan, M.A., LL.B., advocate, 18 Nelson Street, Edinburgh (Conveyancing and Forensic Medicine) each for three years from 1st January last. Sir William Gairdner having intimated that he desired to resign his position as one of the curators of the Chair of Pathology, the Court appointed Professor John Gray M'Kendrick in his place. The Court approved of the scheme of classes proposed for the summer session, similar to last year, and fixed the fees and appointed the lecturers. A report by a Committee of Senate on the proposed resolution regarding B.L. and LL.B. degrees, remitted to the Senate on 8th December, was submitted and considered, and the resolution was carried in its original form. The Court remitted to Professor Barr to enquire and bring up a report as to the extent of electric lighting and plant which would be required for lighting up the whole University with electricity.

9th March, 1899.—The Court met. Present—The Principal (in the chair); David Murray, LL.D.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Sir J. N. Cuthbertson, LL.D.; Professor Sir William Gairdner, K.C.B.; Sheriff Berry; Professor Stewart; and Professor Adamson. Minute of meeting of the Works Committee of 6th March, 1899, was read and adopted, dealing *inter alia* with iron railings to be erected on the University boundary alongside University Avenue from the old gateway to the end of the Professors' houses. Minutes of meetings of the Finance Committee of 7th and 9th March were read and adopted, dealing with University accounts, University investments, and other matters. The Court appointed W. A. Ramsay, B.A., LL.B., advocate, Edinburgh, additional examiner in Law (Jurisprudence, Public International Law, International Private Law, and Constitutional Law and History) for three years from 1st January last. On the recommendation of Professor Ramsay, the Court appointed William W. M'Kechnie, M.A., B.A., as his assistant. The Court resolved to institute an ordinary curriculum class in German for male students, and remitted to the Finance Committee to fix the additional salary to be paid to the lecturer. A reply was received from the Senate on the question of the date of the final Professional Examination in Medicine, remitted to them on 25th July. Archibald Revie, 271 Sanchiehall Street, Glasgow, was appointed examiner in Spanish for the Science Preliminary Examinations in April. Professor Lodge was appointed a member of the Joint Board of Examiners till 31st January next, to take the place of Professor Bradley, who retires. An application was submitted asking leave to place a stained glass window in the Bute Hall, opposite the M'Grigor Window, in honour of the late Principal Caird, and intimating that the commission had been entrusted to Messrs Morris & Co., of London, and that the design is to consist of 12 figures, to be arranged as follows: First row—Plato, Aristotle, Spinoza, Hegel. Second row—Athanasius, Chrysostom, Augustine, Aquinas. Third row—Philosophia, Jurisprudentia, Medicina, Theologia. The application was granted. The Court re-appointed Professor Young as a

member of the Committee of the Millport Marine Biological Station for the current year. The Court received intimation of a legacy of £500 from the late Sir John Struthers, M.D., LL.D., Emeritus Professor of Anatomy at Aberdeen University, for providing an award in the shape of a gold medal or money prize for students in anatomy. There was also intimated bequest by the late Mrs. Bell, of Nether Culzean, Maybole, of the residue of her estate, for the purpose of founding bursaries in Medicine, Law, and Theology.

13th April, 1899.—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; David Murray, LL.D.; James Colquhoun, LL.D.; Sir James Bell, Bart.; D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson, LL.D.; Professor Sir William Gairdner, K.C.B.; Sheriff Berry; Professor Stewart; and Professor Adamson. The Secretary reported receipt of an intimation from Sir James King, as chairman of a meeting of the General Council held on 5th inst., that Sir James Bell, Bart., had been appointed an assessor in the Court for the remainder of the term of office of the late Rev. Dr. James Waters King. Sir James Bell, being present, was welcomed and took his seat. Minutes of meetings of the Finance Committee of 22nd March and 11th April were read and adopted, dealing with remuneration to the Joint Board of Examiners, University accounts, investments, and other matters. Minute of meeting of the Works Committee of 10th April, 1899, was read and adopted, dealing *inter alia* with repairs to be done at the University during the summer. In reply to a letter from the honorary treasurer of the Caird Memorial (Window) Fund, the Court expressed their opinion that the colouring of the window should correspond in key to that of the McGrigor Window. On a report of the Recognition Committee, the Court resolved to approve Harvard University for the purpose of graduation under section 4 of Ordinance No. 23. The Court appointed John Adams, M.A., B.Sc., rector of Free Church Training College, Glasgow, as lecturer on Education for a term of five years from the beginning of next winter session. Two reports by the Museum Committee, the first dated 20th March, regarding the publication of the Stevenson Coin Catalogue, the Bellahouston Catalogue of the Hunterian MSS., "Tituli Romani," and donations to the Museum, and accommodation of the Museum and Library, were submitted and considered. The fifth annual report of the Library Committee, dated March, 1899, giving statistics of the books purchased, catalogues, and making suggestions as to shelving and accommodation of the reading room, with reference to Museum accommodation, was submitted and considered. It was resolved that when electric light can be introduced, the old reading room be allowed to revert to its original use, and the present students' reading room be restored to the use of the Museum. A further report of the Library Committee, dated 29th March, relative to the heating of the library, was submitted and remitted to the Works Committee. A representation by the General Council, passed at last meeting of the Council, regarding the University Library, was submitted and remitted to the Library Committee. The Court resolved to continue for next year the guarantee of £25 to cover the expense of the Monday

free lectures, and passed a vote of thanks to those gentlemen who had delivered lectures during last winter session. Communications were submitted from the Secretary of the Scottish Education Department relative to a proposed new Agricultural College for the West of Scotland, and the Court appointed two representatives to the governing body thereof, viz., Professor Stewart and Dr. M'Vail. After consultation with the Senate, in terms of Ordinance No. 139, the Court fixed 28th October next as the date of the election of the new Lord Rector. Working plans and specifications were now submitted of the new engineering laboratory, and the architects were instructed to proceed forthwith to get tenders from contractors.

4th May, 1899.—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; Sir James Bell, Bart.; D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson, LL.D.; Professor Sir William Gairdner, K.C.B.; Sheriff Berry; Professor Stewart; and Professor Adamson. Minute of meeting of the Finance Committee of 2nd May, 1899, dealing *inter alia* with assistants' salaries, payment of accounts, proposals for loans, and other matters, was read and adopted. The examination papers set for preliminary and degree examinations in March and April last were laid on the table. The Court adopted a resolution requesting the Senate to give instructions as to the precise conditions to be fulfilled for obtaining certificates of having acted as clerk in the medical and dresser in the surgical wards of a public hospital, in terms of Ordinance No. 14.

XV. FINANCIAL STATEMENT OF THE UNIVERSITY FOR 1897-98.

INCOME.

I. Teinds, Feu-duties, Ground Annuals, Dividends, and Interest (including Queen Margaret College, £878 8s. 2d.),	£11,783	13	5½
II. Parliamentary Grant—			
(a) Under Universities Act,	£12,180	0	0
(b) Under Education and Local Taxation Act,	8,700	0	0
		20,880	0 0
III. Special Endowments—			
(a) Chairs,	£2,045	7	2
(b) Lectureships,	839	11	1
(c) Demonstratorships, etc.,	482	15	4
		3,367	13 7
IV. Class Fees—			
(a) Constituting the Fee Fund (including Queen Margaret College, £2,019 3s. 0d.),	£15,764	14	0
(b) Other Classes,	998	8	3
		16,763	2 3
V. Other Fees—			
(a) Matriculation (including Queen Margaret College, £268 16s. 0d.),	£1,879	10	0
(b) Examination and Graduation (including Queen Margaret College, £452 11s. 0d.),	3,930	6	0
(c) Registration (including Queen Margaret College, £14),	200	0	0
(d) Recognition—towards Expenses of Inspection,	26	0	0
		6,035	16 0
VI. Library—			
(a) Subscriptions,	£61	8	6
(b) Students' Catalogue,	1	1	0
(c) Revenue of Legacy Funds,	48	0	0
(d) Arrears of Interest on Legacy Funds,	66	4	10
		176	14 4
Carry forward,	£59,006	19	7½

Brought forward,	£59,006	19	7½
VII. Annual Grants from the Bellahouston Trust—			
(a) Library,	£100	0	0
(b) Hunterian Museum,	100	0	0
(c) Natural Philosophy,	100	0	0
(d) Chemistry,	100	0	0
(e) Astronomy,	50	0	0
		450	0 0
	£59,456	19	7½
Over Expenditure for 1897-98,	709	2	5
	£60,166	2	0½

EXPENDITURE.

I. University Court and Senate—			
(a) Secretary of University Court (including outlays, £54 5s. 2d.),	£354	5	2
(b) Clerk of Senate,	262	10	0
(c) Assistants to Clerk of Senate (including incidental expenses, £89 9s. 0d.),	554	9	0
		£1,171	4 2
II. General Council—			
(a) Registration,	£96	11	9
(b) Clerk,	50	0	0
(c) Printing and Outlays, per Clerk,	105	13	5
		252	5 2
III. Business—			
(a) Factors (including outlays, £64 15s. 3d.),	£699	15	3
(b) Auditors,	31	10	0
(c) Law Agents,	19	3	6
		750	8 9
IV. Ministers' Stipends,		1,582	3 4
V. Pension Fund,		4,000	0 0
VI. Salaries—			
(a) Principal,	£1,100	0	0
(b) Professors under Ordinance No. 25,	24,401	6	0
(c) Other Professors,	2,198	14	1
(d) Lecturers (including £1,550 at Queen Margaret College),	4,779	11	1
(e) Assistants and Demonstrators (including £811 1s. 7d. at Queen Margaret College),	5,946	19	11
(f) Examiners (including expenses, £158 16s. 2d.),	1,391	4	2
(g) Reports on Applications for Recognition,	0	0	0
		39,817	15 3
VII. Library,		1,874	0 7
VIII. Museum,		629	6 0
IX. Observatory,		284	17 3½
Carry forward,	£50,362	0	6½

Brought forward, £50,362 0 6½

X. University Buildings—

(a) Repairs,	£983	0	0
(b) Lighting,	280	6	9
(c) Heating and Ventilating,	662	16	0
(d) Water,	130	10	4
(e) Pathological Institute at Western Infirmary	331	19	10
(f) Bute and Randolph Halls Electric Lighting Installation (further payments),	51	4	8
		2,439	11 7

XI. Insurance, 307 17 3

XII. Service, Cleaning, and Upkeep of Grounds, 1,469 18 8

XIII. Class Expenses, Apparatus, etc.—

(a) Prizes and Medals,	£216	18	4
(b) Lantern Slides,	60	10	3
(c) Apparatus for Laboratories, etc.,	688	6	9
(d) Class Expenses,	1,419	14	7
		2,385	9 11

XIV. Printing, Stationery, and Advertising, 681 9 6

XV. Chapel, 132 15 3

XVI. Bursaries, 183 2 3

XVII. Jubilee of Lord Kelvin as a Professor (further accounts), 1 11 0

XVIII. Installation of Lord Rector, 122 6 0

XIX. Public Burdens, Taxes, etc. (including £21 to Glasgow
Police), 710 14 4½

XX. Taxes, Repairs on Buildings, Lighting, Heating, Service,
etc., at Queen Margaret College, 816 8 4½

XXI. Students' Representative Council, 20 0 0

XXII. Miscellaneous, 75 17 3½

XXIII. Purposes of Bellahouston Grants (including £42 2s. 4d.
still to be expended), 450 0 0

£60,166 2 0½

PARTICULARS OF SUMS DEVOTED TO THE MAINTENANCE OF THE TEACHING STAFF AND OF EXAMINERS.

FACULTY OF ARTS.

	Professors.	Lecturers.	Assistants or Demonstrators.	Total.
Humanity, . . .	£1,430 0 0	£95 17 6	£535 7 11	£2,061 5 5
Greek, . . .	1,350 0 0	92 8 3	505 0 0	1,947 8 3
English, . . .	900 0 0	200 0 0	129 9 0	1,229 9 0
French, . . .	...	300 0 0	...	300 0 0
German, . . .	...	100 0 0	...	100 0 0
Logic, . . .	800 0 0	100 0 0	100 0 0	1,000 0 0
Moral Philosophy, .	800 0 0	100 0 0	100 0 0	1,000 0 0
Political Economy, .	600 0 0	...	...	600 0 0
Education, . . .	...	200 0 0	...	200 0 0
Mathematics, . . .	1,440 0 0	102 3 6	475 0 0	2,017 3 6
Natural Philosophy, .	1,252 0 0	134 0 5	435 0 0	1,821 0 5
History, . . .	900 0 0	...	...	900 0 0
	<u>£9,472 0 0</u>	<u>£1,424 9 8</u>	<u>£2,279 16 11</u>	<u>£13,176 6 7</u>

FACULTY OF SCIENCE.

Astronomy, . . .	£600 0 0	...	...	£600 0 0
Civil Engineering, .	900 0 0	...	£297 0 0	1,197 0 0
Naval Architecture, .	800 0 0	...	100 0 0	900 0 0
Geology, . . .	...	£250 0 0	96 0 0	346 0 0
	<u>£2,300 0 0</u>	<u>£250 0 0</u>	<u>£493 0 0</u>	<u>£3,043 0 0</u>

FACULTY OF MEDICINE.

Botany, . . .	£830 0 0	...	£225 0 0	£1,055 0 0
Natural History, . .	806 0 0	...	401 14 1 ¹	1,207 14 1
Physics, . . .	...	£250 0 0	...	250 0 0
Chemistry, . . .	1,300 0 0	181 3 9	452 13 7	1,933 17 4
Anatomy, . . .	1,645 0 0	400 0 0	600 0 0	2,645 0 0
Physiology, . . .	1,100 0 0	...	404 15 4	1,504 15 4
Materia Medica, . .	700 0 0	...	100 0 0	800 0 0
Pathology, . . .	1,100 0 0	150 0 0	250 0 0	1,500 0 0
Medical Jurisprudence, . . .	586 17 0	...	100 0 0	686 17 0
Surgery, . . .	800 0 0	100 0 0	190 0 0	1,090 0 0
Clinical Surgery, . .	320 0 0	...	50 0 0	370 0 0
Practice of Medicine, .	800 0 0	100 0 0	150 0 0	1,050 0 0
Clinical Medicine, . .	432 0 0	...	50 0 0	482 0 0
Midwifery, . . .	700 0 0	...	100 0 0	800 0 0
Insanity, . . .	...	150 0 0	...	150 0 0
Diseases of the Eye, .	...	175 0 0	...	175 0 0
Diseases of the Ear, .	...	52 10 0	...	52 10 0
Diseases of the Throat, . . .	...	52 10 0	...	52 10 0
	<u>£11,119 17 0</u>	<u>£1,611 3 9</u>	<u>£3,074 3 0</u>	<u>£15,805 3 9</u>

¹ Includes £93 11s. 1d. for two previous sessions.

FACULTY OF LAW.

	Professors.	Lecturers.	Assistants or Demonstrators.	Total
Scots Law, . . .	£800 0 0	...	...	£800 0 0
Conveyancing, . . .	600 0 0	...	...	600 0 0
Jurisprudence, . . .	...	£300 0 0	...	300 0 0
Public International Law, . . .				
International Private Law, . . .				
Constitutional Law and History, . . .				
Civil Law, . . .	...	200 0 0	...	200 0 0
Mercantile Law, . . .	...	200 0 0	...	200 0 0
	<u>£1,400 0 0</u>	<u>£900 0 0</u>	<u>...</u>	<u>£2,300 0 0</u>

FACULTY OF THEOLOGY.

Divinity, . . .	£554 4 8	...	...	£554 4 8
Hebrew and Semitic Languages, . . .	700 0 0	46 5 3	£100 0 0	846 5 3
Church History, . . .	428 16 8	...	...	428 16 8
Biblical Criticism, . . .	625 1 9	...	...	625 1 9
Natural Theology, . . .	...	£547 12 5	...	547 12 5
	<u>£2,308 3 1</u>	<u>£593 17 8</u>	<u>£100 0 0</u>	<u>£3,002 0 9</u>

SUMMARY.

Faculty of Arts, . . .	£9,472 0 0	£1,424 9 8	£2,279 16 11	£13,176 6 7
Faculty of Science, . . .	2,300 0 0	250 0 0	493 0 0	3,043 0 0
Faculty of Medicine, . . .	11,119 17 0	1,611 3 9	3,074 3 0	15,805 3 9
Faculty of Law, . . .	1,400 0 0	900 0 0	...	2,300 0 0
Faculty of Theology, . . .	2,308 3 1	593 17 8	100 0 0	3,002 0 9
	<u>£26,600 0 1</u>	<u>£4,779 11 1</u>	<u>£5,946 19 11</u>	<u>£37,326 11 1</u>

EXAMINERS FOR DEGREES, Etc.

I. Preliminary Examinations—

(a) Eight Examiners, . . .	£233 3 0	
(b) Four Members of Joint Board, . . .	84 0 0	
		£317 3 0

II. Degree Examinations—

(a) Eight Examiners in Arts, . . .	£320 5 0	
(b) Fourteen Examiners in Medicine, . . .	500 10 0	
(c) Three Examiners in Law, . . .	63 0 0	
(d) Two Examiners in Theology, . . .	31 10 0	
		915 5 0

III. Expenses—

(a) Preliminary Examiners, . . .	£13 7 6	
(b) Joint Board, . . .	66 13 5	
(c) Superintendence, etc., . . .	78 15 3	
		158 16 2
		<u>£1,391 4 2</u>

CLASS FEES.		
I. Faculty of Arts—		
Humanity,	£962 17 0	
Greek,	585 18 0	
English,	662 11 0	
French,	79 16 0	
German,	27 6 0	
Hebrew,	154 7 0	
Logic,	409 10 0	
Moral Philosophy,	459 18 0	
Political Economy,	97 13 0	
Education,	321 6 0	
Philosophy of Law,	3 3 0	
Mathematics,	829 10 0	
Natural Philosophy,	320 5 0	
Astronomy,	4 4 0	
Chemistry,	99 15 0	
Botany,	45 3 0	
Zoology,	40 19 0	
Geology,	3 3 0	
History,	236 5 0	
Constitutional Law,	7 7 0	
Roman Law,	105 0 0	
Public Law,	3 3 0	
II. Faculty of Science—		£5,458 19 0
Astronomy,	£6 6 0	
Engineering,	434 14 0	
Naval Architecture,	157 10 0	
Geology,	15 15 0	
Mathematics,	129 3 0	
Natural Philosophy,	240 9 0	
Chemistry,	331 16 0	
Botany,	36 15 0	
Zoology,	51 9 0	
Physiology,	31 10 0	
Anatomy,	31 10 0	
Electricity—Pure and Applied,	37 16 0	
Political Economy,	3 3 0	
III. Faculty of Medicine—		1,507 16 0
Botany,	£553 7 0	
Zoology,	492 9 0	
Physics,	328 13 0	
Chemistry,	719 5 0	
Anatomy (including Embryology),	1,705 4 0	
Physiology,	745 10 0	
Materia Medica,	698 5 0	
Pathology,	718 4 0	
Forensic Medicine,	423 3 0	
Surgery,	506 2 0	
Clinical Surgery,	130 15 1	
Practice of Medicine,	181 13 0	
Clinical Medicine,	234 10 2	
Midwifery,	387 9 0	
Insanity,	216 6 0	
Eye,	21 0 0	
Ear,	40 19 0	
Throat and Nose,	48 6 0	
		8,151 0 3
Carry forward,		£15,117 15 3

Brought forward, £15,117 15 3

IV. Faculty of Law—

Law,	£491 8 0
Conveyancing,	245 14 0
Constitutional Law and History,	42 0 0
Civil Law,	48 6 0
Jurisprudence,	28 7 0
Public International Law,	50 8 0
International Private Law,	49 7 0
Political Economy,	3 3 0
Forensic Medicine,	18 18 0
Mercantile Law,	40 19 0

1018 10 0

V. Faculty of Theology—

Divinity,	£163 16 0
Church History,	101 17 0
Biblical Criticism,	122 17 0
Hebrew (see under Faculty of Arts), . . . . .	...

388 10 0

VI. Summer Tutorial Classes, 244 13 0

Deduct Fees returned, £16,769 8 3
6 6 0

£16,763 2 3

APPENDIX—I.

LIST OF MEMBERS

INCLUDED IN

THE REGISTER

OF

THE GENERAL COUNCIL

FOR THE YEAR COMMENCING 1st JANUARY, 1899,

WITH ABBREVIATED ADDRESSES, ETC.

N.B.—So far as information has been available down to the time of publishing Calendar, addresses, etc., have been corrected, and names of deceased Members removed. Members are requested to intimate to the Registrar any change of designation (of profession or calling), or of permanent address. Representatives of deceased Members also requested to make intimation, in order that the names of such Members may be removed.

- Abbott, John C., M.B., C.M., 18 Rothesay gardens, Partick
 Abdurahman, Abdullah, M.B., C.M., Cape Town, S. Africa
 Abercrombie, Peter H., M.D., C.M., 10 Coburg place, London, W.
 Abercrombie, Ralph, M.A., minister, Goole
 Abernethy, Wm., M.A., tch., Beechhill, Coupar-Angus
 Adam, Alex., M.B., C.M., Glasgow
 Adam, Basil J., M.B., C.M., Beaufort, Victoria
 Adam, David S., B.D., minister, 42 Margaret st., Greenock
 Adam, Hector M., B.D., min., 20 Hamilton pl., Aberdeen
 Adam, Jas., M.A., tch., 218 Gt. Westn. rd., Glas.
 Adam, James, M.A., M.B., C.M., Hamilton
 Adam, James, M.B., C.M., 60 Causeyside, Paisley
 Adam, James, L.L.B., stud., Castlehead, Paisley
 Adam, James A., M.A., U.P. minister, Ellon
 Adam, John, M.B., C.M., 2 N. Smithhills, Paisley
 Adam, John, M.B., C.M., 1 Caroline st., Forres
 Adam, John E., M.B., C.M., Westgrove, Kilnhurst, Rotherham
 Adam, John W., M.B., C.M., Tarbolton
 Adam, Matt. A., B.Sc., eng., 18 Southampton bldgs., London
 Adam, Peter, B.D., min., Alford, Aberdeen
 Adam, Robert H., M.A., M.D., C.M., 125 Newport st., Bolton
 Adam, Thomas, M.A., minister, Cumbernauld
 Adam, Thomas, M.A., stud., Westgrove, Kilnhurst
 Adam, Thos. B., M.D., C.M., 37 Church st., Brechin
 Adam, William J., M.B., C.M., 138 Acre lane, London, S.W.
 Adam, Wm. T., M.B., C.M., 48 London rd., Carlisle
 Adams, Geo. S., M.A., stud., Gilbertfield, Hamilton
 Adams, Jas. A., M.D., C.M., 5 Woodside cr., Glas.
 Adams, John, M.A., B.Sc., rector, F.C. Training Coll., Glasgow
 Adams, John, B.D., min., Inverkeillor, Arbroath
 Adams, John, M.B., C.M., 1 Queen's cr., Glas.
 Adams, John E., B.D., min., F.C., Dreghorn
 Adamson, Jas., M.D., Hettou-le-Hole, Fenechou
 Adamson, James, M.A., minister, Maree, N.S.
 Adamson, Kilgour, M.B., C.M., Rectory, Arncliffe
 Adamson, Robert, L.L.D., prof., Univ., Glas.
 Adamson, Wm. F., M.A., minister, Galashiels
 Addie, John, M.A., min., Wilson Church, Pea
 Atleek, John, M.A., D.Sc., Inspector of Chem Works, Woolton
 Agnew, Alex. P., M.B., C.M., Padilham, Lanc.
 Agnew, Jas. F., M.B., C.M., 13 Muirist., Richme
 Melbourne
 Agnew, James M., minister, Longhope, Orkney
 Agnew, Rbt. R., M.A., tch., 11 Hopetoun pl., Glasgow
 Aiken, James, M.A., assist. min., St. Andre cottage, Cowdenbeath
 Aiken, James, M.A., writer, Dalmoak
 Aiken, John B., M.A., writer, Dalmoak
 Aikman, Chas. B., writer, 208 W. George st., G.
 Aikman, Chas. M., M.A., D.Sc., chemist, Stir
 Aikman, John, M.D., C.M., Queen's rd., Guern
 Aikman, Matt., M.A., stud., 39 Cecil st., Hillb
 Ainslie, Jas. L., M.A., stud., 20 Kelso rd., Le
 Ainsworth, Wm. T., M.B., C.M., Shipley, York
 Aird, Alex. W., M.B., C.M., Newmilns
 Aird, Robert, M.A., tch., Tarbert, Loch Fyne
 Aitken, David, M.A., tch., Academy, Mother
 Aitken, Geo. J., M.A., tch., 2 Cluny villas, J. dan
 Aitken, George R., M.A., min., O.S. Muir
 Kirkintilloch
 Aitken, James, M.A., minister, Valparaiso
 Aitken, Jas., M.B., C.M., 15 Dalton sq., Lancas
 Aitken, Jas., M.B., C.M., High road, Hford
 Aitken, James A., M.B., C.M., 24 Abbotsford
 Glasgow
 Aitken, James R., M.A., min., Bushmead ave., Bedford

- Aitken, John, M.B., Ch.B., 328 St. George's rd., Glas.
 Aitken, John, M.D., C.M., Buckhaven
 Aitken, John R., LL.B., 2 Woodlands ter., Glas.
 Aitken, Patrick H., B.Sc., B.D., min., 99 Grant street, Glasgow
 Aitken, Robert, M.A., student, Redhurst, Dalry
 Aitken, Robert, B.L., writer, Mound pl., Edin'gh
 Aitken, Robt. E., C.A., 66 St. Vincent st., Glasgow
 Aitken, Robert Y., M.D., C.M., Carsehead, Dalry, Ayrshire
 Aitken, Thos. M., B.Sc., engr., Netherlea, P'shields.
 Aitken, Wm. B., M.B., C.M., James Town, S. Aust.
 Aitkenhead, Robert, M.B., C.M., High Blantyre
 Aiton, Thomas, B.A., min., Livingston, Mideader
 Aiton, Wm., B.L., lawagt., 115 St. Vincent st., Glas.
 Alexander, Andw., M.A., surg., Blaydon-on-Tyne
 Alexander, Arch., M.A., min., Spittal, Berwick
 Alexander, Arch. B. D., M.A., min., Langbank
 Alexander, Archibald S., M.D., C.M., 6 Sussex terrace, Plymouth
 Alexander, Charles A., M.B., C.M., Denny
 Alexander, David R., B.D., prob., Clarkfield, Partick
 Alexander, Geo., M.B., Ch.B., Eastbourne ho., Forfar
 Alexander, Gilchrist G., M.A., barr., 2 Plowden buildings, Temple, London, E.C.
 Alexander, James, M.D., C.M., Galston
 Alexander, John, M.A., min., Sandbank pl., Partick
 Alexander, John, M.A., minister, Piteairn, Perth
 Alexander, John B., M.A., min., Hawaiian Islands
 Alexander, Robert, minister, Dunfermline
 Alexander, Robt., M.A., tch., 3 Gt. Geo. st., Hillhead
 Alexander, Sam., M.D., C.M., 244 Paisley rd., Ibrox
 Alexander, Sam. P., M.D., C.M., Kent rd., Southsea
 Alexander, Walter, M.A., min., F.C. manse, Kirkmaiden
 Alexander, William H. M., M.B., C.M., Ugie Brae, Old Deer
 Alexander, William, M.D., C.M., Dundonald
 Alexander, William, M.B., C.M., 10 Portland ter., Kilmarnock
 Alexander, William M., B.Sc., B.D., M.D., C.M., 75 Armadale st., Glasgow
 Alison, Sir A., Bart., K.C.B., LL.D., general, 93 Eaton place, London
 Alison, Archibald, minister, Prestwick
 Alison, Arthur, advocate, 3 Moray pl., Edinburgh
 Alison, George, minister, Kilbarchan
 Alison, John, M.A., D.D., min., Newington, Edin'gh
 Allan, Alex., M.A., tch., 29 Albert st., Coatbridge
 Allan, Alex. S., M.B., Ch.B., 51 Brown st., N'milns
 Allan, Arthur, M.A., minister, Manse, Fairlie
 Allan, Arthur W., B.L., writer, Muirfield, Pollok-shields
 Allan, Chas., M.A., min., E. Bank U.P. Manse, Hawick
 Allan, Geo. F., LL.B., writ., 6 London ter., Hillhead
 Allan, Henry, M.A., shipowner, 2 Park gns., Glas.
 Allan, Jas., M.A., tch., 172 Perth road, Dundee
 Allan, James Paul, M.D., Renfrew
 Allan, James W., M.B., C.M., 18 India st., Glasgow
 Allan, John, M.D., C.M., Johannesburg
 Allan, John, M.A., surveyor of taxes, Hamilton
 Allan, John, M.B., C.M., Glenfield, Dumbarton
 Allan, Robert, M.D., C.M., 6 Arran pl., Ardrossan
 Allan, Wm., M.B., C.M., Gothic cottage, Govan
 Allan, William, M.A., stud., 327 Duke st., Glasgow
 Allan, Wm., M.D., C.M., Glenfield, Dumbarton
 Allan, Wm., B.Sc., C.E., Elderslie ho., Strathaven
 Allan, Wm., M.B., C.M., Cranlington, Northumb-erland
 Allan, Wm. C., M.B., C.M., Klerksdorp, Transvaal
 Allan, William C., M.A., min., Par. Ch., Bradford
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 Wishart, Jas., M.A., tch., Wilson st., Airdrie
 Wishart, Robt. S., M.A., tch., Meigle cot., Stepps
 Wolfe, John Reissberg, M.D., 55 Collins street, Melbourne
 Wolverson, Fred., M.B., C.M., 141 New Hampton road, Wolverhampton
 Wood, Jas. B., B.D., min., St. Paul's, Dundee
 Wood, Percival J., M.A., teacher, Univ. school, Cambridge road, Southampton
 Wood, Robt. T., M.B., C.M., 6 Blantyre st., Glas.
 Woodburn, Alex., B.Sc., C.E., Ry. Co., Calcutta
 Woodburn, James C., M.D., 197 Bath st., Glasgow
 Woods, Thomas, M.D., Parsonstown
 Woodside, David, B.D., minister, 1 Colebrooke terrace, Glasgow
 Workman, Harold, B.Sc., eng., 5 Hanover ter., Glas.
 Wortabet, James R., M.B., C.M., 56 Upper Kennington lane, London, S.E.
 Worton, Albert S., M.B., C.M., Whitstone, Tollerose
 Witherspoon, James, B.D., probationer, Coatdyke, Coatbridge
 Witherspoon, John, M.B., C.M., Seattle, Washington, U.S.A.
 Witherspoon, John, M.B., Ch.B., 144 Holland street, Glasgow
 Witherspoon, William L., min., Kilspindie, Erro
 Wray, William, M.A., min., Orritor, Cookstown
 Wright, Alexander, M.A., minister, Musselburgh
 Wright, Dan., M.A., writer, 22 Abbey st., Paisley
 Wright, Hugh, writer, 39 Se. Bridge, Edinburgh
 Wright, John, M.B., C.M., 3 Victoria pl., Shawlands
 Wright, John C., M.B., C.M., 13 Elderslie st., Glas.
 Wright, John S., M.B., C.M., 159 Manchester road, Bradford
 Wright, Thos., M.A., min., 10 Gladstone pl., Stirling
 Wright, Thos., M.B., C.M., 8 Cornhill, Glasgow
 Wright, Thomas G., M.A., stud., 11 Westbourne terrace, Glasgow
 Wright, William, minister, Lochee
 Wyer, Otho F., M.D., Leamington

- Wylie, Adam Howie, M.D., C.M., 93 Manchester street, Oldham
- Wylie, Alex., M.A., min., 1 Mardale cr., Edin.
- Wylie, Alex., W.S., 21 Douglas cr., Edinburgh
- Wylie, Alex., M.B., C.M., Croxall Grange, Lichfield
- Wylie, And., M.D., C.M., Buckley hill, Marsden, Huddersfield
- Wylie, James, M.D., C.M., 64 Kelvingrove st., Glas.
- Wylie, John, M.B., C.M., The Crescent, Dalnair
- Wylie, John, M.B., C.M., Stewarton, Ayrshire
- Wylie, Rich. J., M.D., C.M., Mashonaland, So. Africa
- Wylie, William, M.A., teacher, Flotta, Stromness
- Wylie, Wm. S., B.L., writer, 149 St. Vincent st., Glas.
- Wyllie, John, B.L., writ., Bencloich, Lennoxtown
- Wyllie, John, M.D., C.M., 262 Beverley road, Hull
- Wyllie, William, M.D., C.M., Kirkby Lonsdale
- Wyllie, William, M.A., minister, 110 Dunnikier road, Kirkealdy
- Wyper, Wm., M.B., Ch.B., Zambesi cott., H'milt'n
- Wytt, William H. de, M.B., C.M., University, St. Andrews
- Yair, David W., minister, Firth, Orkney
- Yair, John M., M.B., C.M., Teviotdale, N. Finchley, London, N.
- Yamamoto, Nagakata, B.Sc., naval architect, Honjoku, Tokyo
- Yarrow, Henry, M.B., C.M., 7 Lauriston pl., Glas.
- Yaman, George, M.D., 2 Albany place, Glasgow
- Yearnshaw, Herbert, M.B., C.M., 5 Leaf square, Pendleton
- York, William, writer, 150 Hope street, Glasgow
- Young, Alex. G., M.B., C.M., Mt. Rillington, York
- Young, Alf. A., M.A., M.B., C.M., 10 Ham. pk. tr., Gl.
- Young, Archibald, M.A., minister, 29 Osborne place, Aberdeen
- Young, Archibald, B.Sc., M.B., C.M., 34 Berkeley terrace, Glasgow
- Young, Daniel L., M.A., manuf., William st., Gl.
- Young, David, M.D., C.M., 260 Gt. Eastern rd., Gl.
- Young, David, M.B., C.M., Greenbank, Partick
- Young, David, M.A., min., 2 Annfield ter., Partick
- Young, David, B.D., prob., Flemington, Strathaven
- Young, David J., M.B., Ch.B., 128 Park rd., Glas.
- Young, Eben. D., M.A., W.S., 13 Frederick st., Edin.
- Young, Frank S., M.A., acct., Kansas, U.S.A.
- Young, Geo. B., B.L., solic., Mt. Pleasant, Falkirk
- Young, Geo. G. B., M.A., tch., 397 Gt. Western road, Glasgow
- Young, Homer, M.A., minister, Lochmaben
- Young, Hugh C. T., M.D., C.M., Sydney
- Young, James, M.A., tch., South Schoolhouse Biggar
- Young, James, M.D., C.M., Redbourn, Herts
- Young, James, minister, Dyrock, Prestwick
- Young, Jas., M.A., min., N. Parish manse, Paisle
- Young, Jas. J. T., M.B., C.M., 46 Pollok st., Glas
- Young, Jas. M., M.B., C.M., 32 Lilybank gns., Hillh'
- Young, John, M.D., professor, Glasgow
- Young, John, M.B., C.M., The Thorn, Earlstoun
- Young, John, M.D., 91 Up. Hanover st., Sheffield
- Young, John, minister, Greenock
- Young, John, M.A., B.Sc., Royston, Bridge of Wei
- Young, John, M.B., C.M., 3 Whitehill gar., Glas
- Young, John, M.A., minister, Greenfield, Iowa
- Young, John, M.B., C.M., Bonnybridge
- Young, John, B.D., prob., 101 Greenhead st., Glas
- Young, John C., M.B., C.M., Aden, Arabia
- Young, Robert Arthur, LL.B., advocate, Chicag
- Young, Robert B., M.A., M.B., C.M., 8 Crow gardens, Glasgow
- Young, Robt. B., M.A., tch., 1 Forth st., N. Berwic
- Young, Robt. H., M.B., C.M., Tsomo, Transkei
- Young, Robt., M.A., tch., Anderson sch., Lerw'
- Young, Robert R., M.D., C.M., 2 Melbourne street Leicester
- Young, Robert T., M.A., probationer, Oakwood Bridge-of-Allan
- Young, Thos., M.D., C.M., 82 Butler st., M'cheste
- Young, Thos. C., LL.B., writer, 93 West Regen street, Glasgow
- Young, William, M.A., minister, Baldernock
- Young, Wm., M.B., C.M., 32 Lilybank gardens Hillhead
- Young, Wm. G., M.D., 22 Monteith row, Glasgow
- Young, William, minister, Barrhead
- Young, William M., M.A., M.B., C.M., 171 Wood house lane, Leeds
- Young, William R., M.A., tch., Pub. sch., Larber
- Young, Wm. S., M.D., C.M., Crescent, Garliest'
- Younger, Arch. S., B.Sc., eng., Airlie wood, Ibro'
- Younger, Robt. T., LL.B., advocate, 63 Frederick street, Edinburgh
- Yuill, John, M.B., C.M., Tannoehside, Uddingstn
- Yuille, Geo. S., B.D., prob., Roslyn, Bothwell
- Yuille, James, minister, Peterhead
- Zahn, Frank B., B.Sc., naval arch., New York
- Zinkeisen, Wm., B.Sc., mine manager, Cali Colombia
- Zuill, John, M.A., M.B., C.M., Kincardine-on-F'tl
- Zuill, Robert, M.B., C.M., Carnock, Dunfermline

APPENDIX II.

EXTRA-ACADEMICAL TEACHING.

N.B.—Every application for recognition must be accompanied by a payment to the University Factors, Messrs. Hill & Hoggan, 194 Ingram Street, Glasgow, of a fee of £5 5s., to be placed to the credit of a fund for defraying the cost of investigation by experts of the fitness of the teacher applying, and of the accommodation, apparatus, and teaching appliances at the disposal of the teacher.

The following regulations for the recognition of Extra-Academical Teaching under Ordinances Nos. 14, 12, and 23, were adopted by the University Court on 14th June, 1894 :—

IN THE CASE OF INDIVIDUAL EXTRA-ACADEMICAL TEACHERS.

I. Every application shall be made to the Secretary of the University Court and shall supply the following information :—

- (a) The registrable or other qualification or qualifications of the applicant.
- (b) A statement of his opportunities of studying the subject and the length of time devoted thereto.
- (c) A statement of his experience in teaching the subject.
- (d) A note of any of his published articles or works on the subject.
- (e) The appointments which he holds as a teacher of the subject in which he requests recognition, and a statement whether the course for which recognition is sought has previously been conducted by him, and if so, for how long. If the applicant is a teacher in a Medical School, College of Science, or other similar Institution, the most recent issue of the Calendar of such School, College, or Institution, should be forwarded.
- (f) The number of meetings to which the course extends, whether each meeting is for one hour or longer, and a statement of the proportion of the course to be devoted to lectures, practical demonstrations, examinations and tutorial work. In the case of a practical course, information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the teacher for whom recognition is sought, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects treated in the course and of the books proposed for the use of students should also be sent in every case.

- (g) The hour or hours at which the course is conducted.
- (h) The accommodation, apparatus, and teaching appliances provided for the class.
- (i) The teaching or examining bodies which have recognized his course.

II. In the case of an applicant conducting courses in Glasgow or its neighbourhood an inspection shall be made of his accommodation and appliances for teaching.

III. Every Extra-Academic Teacher in Glasgow whose course has been recognized under Ordinance No. 12 or Ordinance No. 14 shall, at the commencement of each session, call the attention of his whole class to the provisions of the Ordinance as to enrolment and payment of fee at the University by all students who desire afterwards to graduate there; he shall also call attention to the University requirements as to preliminary examination (more stringent in the case of medical students than the minimum required by the General Medical Council); and shall advise any students looking forward to a University degree to procure from the Matriculation Office a copy of the syllabus of regulations applicable to their course.

IV. Every recognized Extra-Academical Teacher shall annually within one month of the close of the session furnish the University Court with a return of

- (a) The number of students who have attended the recognized course or courses, in such manner as to qualify *pro tanto* for graduation in the University of Glasgow.
- (b) Any change that may have been made in the accommodation or appliances provided.
- (c) A statement showing, for the year next ensuing, the number of meetings to which the course extends, whether each meeting is for one hour or longer, and the proportion of the course to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of a practical course information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether, or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the recognized teacher, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects to be treated in the course, and of the books proposed for the use of students, should also be sent.

V. The certificate of attendance granted by Extra-Academical Teachers should in all cases state the number of lectures or meetings for practical instruction in the course, the number of occasions on which the student was present, the fee charged, and bear that the student has duly performed the work of the class.

VI. Every candidate not being a matriculated student attending the course of an Extra-Academical Teacher in Glasgow, recognized for the purposes of graduation in Medicine or Pure Science, must at the

commencement of each year enrol his name in a book kept at the University for that purpose, paying a fee of the same amount as the matriculation fee, and having in respect thereof a right to the use of the University Library. (Ord. No. 14, § VIII. 5; Ord. No. 12, § V.)

VII. The fee for attendance for the purposes of graduation on the courses of instruction of an Extra-Academical Teacher in Glasgow shall not be less than the fee for the corresponding University Class. (Ord. No. 14, § VIII. 6; Ord. No. 12, § IV. 2; Ord. No. 23, § IV. 2.)

VIII. The Court will not in any case recognize for the purposes of graduation in Medicine the course of any teacher who teaches at the same time more than one of the subjects, except where the applicant is a professor or teacher of any endowed public college or institution, who, by the terms of his appointment, is required to teach more than one of the subjects, and in that case recognition can be granted in one subject only. (Ord. No. 14, § VIII. 7.)

IX. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

X. The recognition of any teacher who fails to furnish the information required in terms of Regulation IV., or a sufficient explanation relative to such failure, or who has ceased for the period of two consecutive sessions to teach the subject in which he is recognized, shall *ipso facto* terminate.

IN THE CASE OF SCHOOLS OR INSTITUTIONS.

I. Every application shall be made to the Secretary of the University Court, and shall supply the following information:—

- (a) A statement of the number of teachers and a detailed syllabus of the curriculum courses proposed to be given, or, in the case of practical classes, information of a similar kind.
- (b) The number and duration of lectures proposed to be given and the number of examinations, whether written or oral, deemed necessary, or in the case of a practical class, information of a similar kind. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).
- (c) The hours of lectures.
- (d) The teaching or examining bodies which have already recognized the curriculum or certificate of the school or institution making application.
- (e) A statement as to the accommodation, apparatus, and appliances at the disposal of the teachers in the school or institution making application.
- (f) A note of the fees proposed to be charged.

II. The Court shall, if it thinks fit, cause an inspection to be made of the accommodation, apparatus, and teaching appliances provided by the school or institution making application.

III. Every recognized school or institution shall annually within one month of the close of the session furnish the University Court with a return of

- (a) The number of students who have attended the recognized school or institution in such manner as to qualify *pro tanto* for graduation in the University.
- (b) Any change that may have been made in the accommodation or appliances provided.
- (c) A statement showing, for the year next ensuing, the number of meetings to which the courses extend, whether each meeting is for one hour or longer, and the proportion of the courses to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of practical courses information should be given as to the manner of conducting them, the number of examinations, oral or written, and whether, or to what extent, lectures or tutorial work form part of the courses. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).

IV. The certificates of attendance granted by recognized schools or institutions should in all cases state the number of lectures or meetings for practical instruction in the courses, the number of occasions on which the student was present, the fees charged, and bear that the student has duly performed the work of the classes.

V. The fees for attendance for the purposes of graduation on the courses of instruction in a recognized school or institution shall not be less than the fees for the corresponding University classes. (Ord. No. 14, § VIII. 6; Ord. No. 12, § IV. 2; Ord. No. 23, § IV. 2.)

VI. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

LIST OF EXTRA-ACADEMICAL TEACHERS.

List of Extra-Academical Teachers recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine and Science, in terms of Ordinances of the Universities Commissioners (1858 and 1889), the names of those who are recognized for Graduation in Science being printed in *italics*.

2 Oct., 1867,	Stevenson Macadam, Ph.D., Edin.,	<i>Chemistry.</i>
19 April, 1876,	Dr. James Gow Black, Otago,	<i>Chemistry.</i>
„	Miller Coughtrey, M.B., Otago,	<i>Anatomy.</i>
7 Nov., 1876,	John Dougall, M.D., Glasgow,	<i>Materia Medica.</i>
„	James Stirton, M.D., Glasgow,	<i>Midwifery.</i>
12 Sept., 1877,	A. M. Buchanan, M.D., Glasgow,	<i>Anatomy.</i>
21 Dec., 1880,	William Craig, M.D., Edinburgh,	<i>Materia Medica and Therapeutics.</i>
„	J. O. Afleck, M.D., Edinburgh,	<i>Practice of Medicine.</i>
„	John Barlow, M.D., Glasgow,	<i>Physiology.</i>
„	Samson Gemmell, M.D., Glasgow,	<i>Practice of Medicine.</i>

24 May, 1881.	Byrom Bramwell, M.D., Edin.,	<i>Practice of Medicine.</i>
22 July, 1885,	James J. Dobbie, M.A., D.Sc.,	
	University Coll., Bangor,	<i>Chemistry.</i>
„	Reginald W. Phillips, B.A., B.Sc.,	
	University Coll., Bangor,	<i>Botany.</i>
28 April, 1886,	A. Smithells, B.Sc., Yorkshire	
	College, Leeds,	<i>Chemistry.</i>
4 Oct., 1887,	Claud M. Thompson, University	
	College, Cardiff,	<i>Chemistry.</i>
„	W. Newton Parker, University	
	College, Cardiff,	<i>Zoology.</i>
27 Feb., 1890,	James Robertson Watson, M.A.,	
	Glasgow,	<i>Chemistry and Prac-</i>
„	Alex. Robertson, M.D., Glasgow,	<i>tical Chemistry.</i>
„	Philip J. White, M.B., University	<i>Practice of Medicine.</i>
	College, Bangor,	<i>Zoology.</i>
5 Jan., 1892,	B. C. A. Windle, M.D., Queen's	
	Coll., Birmingham,	<i>Anatomy.</i>
„	F. J. Allen, M.A., M.B., C.M.,	
	Mason Science Coll., Birming-	<i>Physiology.</i>
	ham,	
„	T. W. Bridge, M.A., Mason	
	Science Coll., Birmingham,	<i>Zoology.</i>
28 April, 1892,	James Swanson, M.A., M.B.,	
	C.M., St. Mungo's Coll.,	
	Glasgow,	<i>Botany.</i>
23 Feb., 1893,	James Blyth, M.A., Technical	
	College, Glasgow,	<i>Physics.</i>
„	J. W. Carr, M.A., University	
	College, Nottingham,	<i>Botany.</i>
27 April, 1893,	G. G. Henderson, D.Sc., Technical	
	College, Glasgow,	<i>Chemistry.</i>
„	A. Gray, M.A., LL.D., University	
	College, Bangor,	<i>Physics.</i>
„	J. H. Poynting, D.Sc., Mason	
	College, Birmingham,	<i>Physics.</i>
20 July, 1893,	J. Berry Haycraft, M.D., Uni-	
	versity College, Cardiff,	<i>Physiology.</i>
9 Nov., 1893,	A. P. Aitken, D.Sc., Edinburgh,	<i>Chemistry.</i>
„	J. F. King, Edinburgh,	<i>Chemistry.</i>
„	W. I. Macadam, Edinburgh,	<i>Chemistry.</i>
„	J. B. Readman, D.Sc., Edinburgh,	<i>Practical Chemistry.</i>
„	D. N. Paton, M.D., Edinburgh,	<i>Physiology and Prac-</i>
		<i>tical Physiology.</i>
„	A. Bruce, M.D., Edinburgh,	<i>Pathology and Prac-</i>
		<i>tical Pathology.</i>
„	F. W. N. Haultain, M.D., Edinbro',	<i>Midwifery.</i>
„	R. M. Murray, M.B., Edinburgh,	<i>Midwifery.</i>
„	G. A. Gibson, M.D., Edinburgh,	<i>Practice of Medicine.</i>
„	R. W. Philip, M.D., Edinburgh,	<i>Practice of Medicine.</i>
„	W. Husband, M.D., Edinburgh,	<i>Vaccination.</i>

14 Nov., 1893,	R. B. Ness, M.A., M.B., Ander- son's College, Glasgow,	<i>Materia Medica and Therapeutics, and Practical Phar- macy.</i>
„	Dawson Turner, M.D., Edinburgh,	<i>Physics.</i>
8 Feb., 1894,	J. W. B. Hodsdon, M.D., Edinbro',	<i>Surgery.</i>
„	H. E. Clark, M.R.C.S., Glasgow,	<i>Surgery.</i>
8 Mar., 1894,	John M. Brown, M.B., C.M., Edin.,	<i>Anatomy and Prac- tical Anatomy.</i>
„	John S. M'Laren, M.B., C.M., Edin.,	<i>Surgery.</i>
„	Robert T. Kent, M.A., F.R.C.S., St. Mungo's College, Glasgow,	<i>Anatomy.</i>
14 June, 1894,	George T. Beatson, M.D., Glasgow,	<i>Surgery.</i>
„	Francis M. Caird, M.B., C.M., Edin.,	<i>Surgery.</i>
„	Alexander James, M.D., School of Medicine, Edinburgh,	<i>Practice of Medicine.</i>
„	A. N. M'Alpine, Minto House, Edinburgh,	<i>Botany.</i>
„	William Russell, M.D., School of Medicine, Edinburgh,	<i>Pathology and Prac- tical Pathology.</i>
„	Henry Alexis Thomson, M.D., Minto House, Edinburgh,	<i>Surgery.</i>
2 Aug., 1894,	George B. Todd, M.B., C.M., Anderson's College, Glasgow,	<i>Zoology.</i>
„	John Hardie, M.B., C.M., F.R.C.S.E., Edinburgh School of Medicine,	<i>Anatomy and Prac- tical Anatomy.</i>
„	Percy F. Frankland, Ph.D., B.Sc., F.R.S., Mason Coll., Birming.,	<i>Chemistry.</i>
13 Dec., 1894,	F. G. Ogilvie, M.A., B.Sc., Heriot Watt College, Edinburgh,	<i>Mechanics.</i>
„	R. Stanfield, A.R.S.M., A.M. Inst. C.E., Heriot Watt Coll., Edin.,	<i>Mechanical Engin- eering.</i>
„	John Gibson, Ph.D., Heriot Watt College, Edinburgh,	<i>Chemistry and Chem- ical Laboratory.</i>
14 Feb., 1895,	A. H. Trow, B.Sc., University College, Cardiff,	<i>Botany.</i>
„	A. B. Robertson, F.C.S., Coatbridge Technical School and Mining College,	<i>Chemistry.</i>
„	Malcolm Laurie, B.A., D.Sc., F.R.S.E., St. Mungo's College, Glasgow,	<i>Zoology.</i>
14 Nov., 1895,	Robert Turnbull, B.Sc., New School of Medicine, Edinburgh,	<i>Botany.</i>
12 Dec., 1895,	Peter Bennett, Anderson's College Medical School, Glasgow,	<i>Physics.</i>
„	T. K. Dalziel, M.B., Anderson's College Medical School, Glas.,	<i>Surgery.</i>
9 Jan., 1896,	Charles Workman, M.D., Royal Infirmary, Glasgow,	<i>Pathology and Prac- tical Pathology.</i>

18 June, 1896,	John Edgar, M.A., B.Sc., M.B., Anderson's College Medical School, Glasgow,	<i>Midwifery.</i>
,,	R. M. Buchanan, M.B., C.M., Anderson's College Medical School, Glasgow,	<i>Medical Jurispru- dence.</i>
,,	George A. Gibson, M.A., Technical College, Glasgow,	<i>Mathematics.</i>
9 July, 1896,	Alexander MacLay, B.Sc., C.E., Technical College, Glasgow, -	<i>Engineering Draw- ing and Design.</i>
12 Nov., 1896,	John Lindsay Steven, M.D., Glasg.,	<i>Practice of Medicine.</i>
,,	Francis G. Baily, M.A., Heriot Watt College, Edinburgh,	<i>Physics and Electric- cal Engineering.</i>
11 Mar., 1897,	A. Campbell Clark, M.D., St. Mungo's College, Glasgow, and Lanark District Asylum, Hartwood,	<i>Mental Diseases.</i>
6 May, 1897,	Richard J. A. Berry, M.D., F.R.C.S.E., New School of Medicine, Edinburgh,	<i>Anatomy.</i>
9 June, 1898,	John Carswell, L.F.P.S.G., L.R.C.P.E., Anderson's Col- lege Medical School, Glasgow,	<i>Mental Diseases.</i>
,,	J. R. Whitaker, M.B., Surgeon's Hall, Edinburgh,	<i>Anatomy and Prac- tical Anatomy.</i>
10 Nov., 1898,	Hugh Galt, M.B., C.M., St. Mungo's College,	<i>Forensic Medicine and Public Health.</i>
,,	W. E. Thomson, M.D., Anderson's Coll. Medical School, Glasgow,	<i>Physiology.</i>
,,	Robert A. Fleming, M.D., School of Medicine, Edinburgh,	<i>Practice of Medicine.</i>

And the ordinary Physicians and Surgeons of any General Hospital in the United Kingdom which accommodates not fewer than eighty patients, and possesses a distinct staff of Physicians and Surgeons.
(See Ordinance No. 14, Section VII. (5).)

LIST OF INSTITUTIONS OR SCHOOLS.

List of Schools or Institutions recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine, Law, and Science in terms of Ordinances of the Universities Commission (1889).

- 14 Nov., 1895, LONDON SCHOOL OF MEDICINE FOR WOMEN, in respect of the following courses: *Chemistry (Systematic and Practical), Anatomy (Systematic and Practical), Physiology (Systematic and Practical), Practical Pharmacy, Practical Pathology, Medical Jurisprudence and Public Health, Clinical Surgery, Clinical Medicine, Practical Midwifery, Mental Diseases, Out-Practice or Dispensary and Vaccination.*

- 23 Mar., 1896, OWEN'S COLLEGE, MANCHESTER.
 ,, UNIVERSITY OF NEW ZEALAND. If a candidate for the First Professional Examination in this University has obtained a Degree in Science or in Arts in the University of New Zealand, granted after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, such candidate is exempted from the examination in such subject or subjects. (Ordinance No. 54, Section IV.)
- 23 July, 1896, UNIVERSITIES OF OXFORD, CAMBRIDGE, AND DUBLIN, AND THE FOUR INNS OF COURT, LONDON. The above are recognized for the purposes of Graduation in Law under Ordinance No. 39 [General No. 11.—Regulations for the Degree of Bachelor of Laws (LL.B.)] and subject to Section II. thereof.
- 11 Mar., 1897, GLASGOW EYE INFIRMARY.
 10 Nov., 1898, UNIVERSITY OF LOUVAIN. This University has been approved by the University Court as a University in which Courses for the four subjects represented in the First Science Examination may be taken and reckoned *pro tanto* under Ordinance No. 23, Section IV. (2).
- 13 April, 1899, HARVARD UNIVERSITY, BOSTON, U.S.A. Approved under Ordinance No. 23, Section IV.

APPENDIX III.

UNIVERSITY SOCIETIES.

GLASGOW UNIVERSITY UNION.

At a Meeting of Students and Graduates, held on the 14th day of February, 1885, it was unanimously resolved to establish a Glasgow University Union. A sum sufficient to erect a building for this purpose having been offered to the Senate by JOHN M'INTYRE, Esq., M.D., Odiham, Hampshire, and the Senate having accepted this gift, Articles of Constitution were drawn up by a Committee of Students and Graduates, and received the approval of the Senate, the Donor, and of the Students' Representative Council. A further sum of £12,000 was raised by the Union Bazaar of 1889, and devoted to furnishing and endowing the building. In 1893, to meet the increasing membership, the building was largely extended at a cost of £2800. The Union is governed by a Board of Directors, appointed by the Committee of Management which is elected annually at the General Meeting of the Members.

Objects.—The objects of the Union are to provide Students with the comforts and conveniences of a Social Club, to hold Debates, and to form a centre to which the various University Societies may be affiliated. The Buildings comprise a Debating Hall, a Dining Hall, Reading and News Rooms, Billiard and Smoking Rooms, Committee Rooms, Lavatories, etc.

Membership.—The Members of the Union are Ordinary Members or Life Members.

Ordinary membership of the Union is open to all matriculated Students and all former Students of the University, and all Medical Students of Glasgow whose names are enrolled in the Extra-mural Album of the University, on payment of an Annual Subscription of Five Shillings. Students may join for the summer session only, on payment of Three Shillings.

All matriculated Students and former Students of the University may, on payment of the sum of Three Pounds Three Shillings, become Life Members of the Union.

President—George F. Buchan.

Vice-President—James J. MacLehose, M.A.

Hon. Secretary—David Shannon, The Union.

Hon. Treasurer—Allan F. Baird.

Assistant Secretary and Treasurer—Archibald S. Wilson.

Librarian—James M. Black, M.A.

Convener of Games Committee—John F. Lambie.

Board of Directors—The Office-bearers; William F. Smillie and A. J. Fleming, LL.B. (former students); Ivy McKenzie, M.A., and W. A. Burns (students).

Former Presidents of the Union.

1890. John H. Harley, M.A.

1890-91. Robert G. Bell, M.D.

1891-92. John Paterson, M.A., M.B.

1892-93. F. A. Macquisten, B.L.

1893-94. Joshua Ferguson, M.A., M.B.

1894-95. Joshua Ferguson, M.A., M.B.

1895-96. Rev. J. A. Stokes Little, M.A.

1896-97. W. Craig Henderson,

M.A., B.Sc. (resigned
Oct., 1896).

1896-97. A. M. Scott, M.A.

1897-98. John C. Monteith, M.A.

1898-99. William F. Smillie.

THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all Students attending the Divinity Hall of the University; but all matriculated Students in faculties other than the Faculty of Divinity are eligible for extraordinary membership.

Honorary President—The Very Rev. Principal Story, D.D., LL.D.

President—William W. Fulton, M.A.

Vice-President—William L. Levack.

Secretary—J. W. Baird, M.A., Strone, Greenock.

Treasurer—W. A. R. Selkirk, M.A.

Committee.

James D. Bowman.

John Dods, B.A.

James Francis, M.A.

William Fulton, M.A.

(With two students of the first year in Divinity to be elected in November.)

MEDICO-CHIRURGICAL SOCIETY.

The principal business of the Society is the prosecution of Medical Research by Dissertations, Lantern and Microscopic Demonstrations, and Debates.

All Medical Students and Medical Men of one year's standing are eligible for Ordinary Membership, which may be obtained on payment of the Annual Subscription of One Shilling and Sixpence.

Meetings of the Society are held in the Union Buildings every Friday Evening during the Winter Session, at 7 o'clock.

Office-Bearers for 1899-1900.

Honorary President—Professor Stockman, M.D.

President—E. P. Cathcart. *Vice-President*—James Davidson, M.A.

Demonstrator—Thomas Richmond.

Secretaries.

Corresponding—Matthew Aikman, M.A., The Union.

Minute—John Muir.

Treasurer—Alexander Fraser, M.A. *Librarian*—A. M. Pollock.

Committee.

James Millar, M.A.

Thomas W. Wilson

James G. Millar.

William A. Milne.

Archibald Leitch.

William N. W. Watson.

John W. Arthur.

John W. Sutherland.

(With two Students of the first year in Medicine to be elected in November.)

Books are given out at weekly meetings, or during the week on written application.

DIALECTIC SOCIETY.

The Society meets weekly during the Session for the discussion of Literary, Philosophical, and Political subjects.

All matriculated Students are eligible for Ordinary Membership, which is obtained by payment of the Annual Subscription of One Shilling.

Honorary President.

Richard Lodge, M.A., Professor of History.

President—R. Henderson Begg, M.A.

Vice-Presidents.

Senior—Ivy M'Kenzie, M.A. *Junior*—William Boyd, M.A.

Secretaries.

Senior—Walter Shaw, The Union. *Junior*—James M. Clark.

Treasurer—Alexander C. Wilson. *Macer*—C. M. Wright.

General Board.

Richard R. Williams, M.A.

John C. Monteith, M.A.

James M. Black, M.A.

George F. Buchan.

James C. Bringan.

W. Steel Rutherford.

George D. Turner.

Carlo La Torre.

GLASGOW UNIVERSITY ORIENTAL SOCIETY.

(Instituted 1880.)

The object of the Society is the study of the languages and literatures of the East.

All Students of Oriental languages are eligible for election to the membership.

The Society meets twice a year—in the months of April and October.

Office-Bearers.

President—Rev. Professor James Robertson, D.D.

Vice-President—Mr. R. B. Pattie, B.D.

Corresponding Secretary—Rev. James Young, B.D.

Recording Secretary—Rev. George Anderson, B.D.

Treasurer—Rev. Robert Gardner, B.D.

GLASGOW UNIVERSITY ALEXANDRIAN SOCIETY.

This Society was formed in January, 1887. It has for its chief object the discussion of questions connected with the Literatures of Ancient Greece and Rome. The membership is open to Members of the University. Any distinguished Scholar or any Member of the University of five years' standing, or any person officially connected with the University, is eligible for Honorary Membership.

*Office-Bearers.**Honorary Presidents.*

Professor G. G. Ramsay, LL.D. | Professor G. G. A. Murray, M.A.

Professor A. C. Bradley, M.A., LL.D.

President—Robert D. Bell, M.A.

Vice-Presidents { David H. Crawford, M.A.

{ Charles G. McIlravey, M.A.

Secretary—George Hope Stevenson, 8 Belmont Crescent, Glasgow.

Treasurer—A. S. Hutchison.

Committee.

George D. Reith.

William H. Andrew.

William T. Ritchie.

Peter H. Waddell.

James F. Dyer.

Miss Lucy P. Johnston.

GLASGOW UNIVERSITY PHILOSOPHICAL SOCIETY.

(Instituted 1887.)

This Society was instituted for the promotion of Philosophical Discussion and Investigation. It meets on Wednesday Evenings at Eight o'clock during the Winter Session, in the Union. Ordinary Membership is open to all Students who have attended or are attending Philosophical Classes in any University. The annual subscription is one shilling for those who are members of the Union, and one shilling and sixpence for those who are not.

*Office-Bearers for Session 1899-1900.**Honorary Presidents.*

Principal Story,	} <i>Ex Officiis.</i>
Professor A. C. Bradley,	
Professor Jones,	
Professor Adamson,	
Professor Royce.	

President—Hugh R. Buchanan, M.A.*Vice-President*—Alex. B. Mackay.*Secretary*—Matthew Babington, The Union.*Treasurer*—Alex. Montgomerie.*Members of Committee.*

Miss Mabel Atkinson.

Robert Candlish, M.A.

Norman D. Smith, M.A.

James Johnston.

G. H. Stevenson.

GLASGOW UNIVERSITY ENGINEERING SOCIETY.

(Instituted 1891.)

The objects of this Society are the promotion of the study of Engineering and the diffusion of Engineering information among the members, by the reading of papers, by discussions, by visits to Engineering works in progress, and by such other means as the Society shall approve.

The membership is open to all past and present Students of the University.

*Office-Bearers for Session 1899-1900.**Honorary President*—Professor Archibald Barr, D.Sc., M.Inst.C.E.*President*—J. D. Cormack, B.Sc., M.I.E.E.*Vice-Presidents.**Engineering*—

Harold D. Jackson.

Naval Architecture—

Lewis A. Smart.

Secretaries—{ J. G. Henderson, B.Sc., 39 Kersland Street, Hillhead.
 George M. Young, The Union.

Treasurer—John G. Johnstone, The Union.*Committee.**Engineering*—

Campbell Houston.

William H. Ballantyne.

A. C. Coubrough, M.A.

Naval Architecture—

G. Howson.

Charles S. Douglas.

GLASGOW UNIVERSITY PHYSICAL SOCIETY.

This Society was founded in 1884 "for the discussion of scientific subjects in general, and the diffusion of scientific information among its members, by special communications, and any other means which the Society may from time to time approve."

Meetings are held at regular intervals during the Winter Session, usually on every alternate Friday at 4 P.M. The syllabus for the year is issued in autumn, and may be had from the Secretary after the commencement of the Winter Session.

All past and present students of the University who are interested in Physical Science are eligible for membership. The subscription for the ensuing year has been fixed at One Shilling.

The Office-Bearers are :—

Honorary President—Lord Kelvin, G.C.V.O., F.R.S.
President—J. T. Bottomley, M.A., D.Sc., F.R.S., F.C.S.
Vice-President—Vincent J. Blyth.
Secretary and Treasurer—Alexander Wool.

Letters should be addressed to the Secretary of the Society at the Physical Laboratory.

GLASGOW UNIVERSITY MISSIONARY SOCIETY.

(Instituted 1821.)

Office-Bearers for 1899-1900.

Honorary President—Professor Cooper, D.D.

President—Robert Aitken, M.A.

Vice-President—William L. Levaek.

Superintendents of Home Missions—{ Neil M'Coll.
 { George Kirk.

Senior Secretary—Neil Mackinnon, 12 Clifford Street, Glasgow.

Junior Secretary—J. J. Pryde, Broompark Circus.

Librarian—Alexander McDonald.

Treasurers—{ Andrew M'Farlane, M.A.
 { W. Fulton, M.A.

Members of Committee.

From Theology—

William Thomson.

Robert Nelson, M.A.

John K. Cameron.

W. A. R. Selkirk, M.A.

Angus Morrison, M.A.

From Medicine—

John Turner.

From Arts—

William Robertson.

William Clark.

Kenneth O. Macleod.

Representatives from First Year Theology, and from Medicine and Law to be appointed in October.

GLASGOW UNIVERSITY CHRISTIAN ASSOCIATION.

The object of this Society is the promotion of religious life and fellowship in the University.

The headquarters of the Association are at 22 Bank Street, where there are carried on weekly Bible reading circles and daily Prayer meetings. Other features of the work are :—The issue of a Handbook at the beginning of each winter session to all new students, monthly addresses by well-known preachers, deputations to Evangelistic meetings.

Office-Bearers.

Hon. President—Professor Robertson, D.D.
Hon. Vice-President—Samuel Cowan, M.A., M.B., C.M.
President—George T. Maclean, M.A.
Vice-President—Thomas R. Rodger.
General Secretary—G. Douglas Reith, 37 Lynedoch Street.
Deputation Secretary—Thomas Marshall.
Bible-circle Secretary—John C. Mann.
Treasurer—Matthew Aikman, M.A.

Committee.

William K. Anderson.	|	Owen L. Jones.
David G. Hunter.	|	William G. Rodger.
Ernest Gunson.	|	William S. Sutherland.

THE FABIAN SOCIETY—GLASGOW UNIVERSITY BRANCH.

(Established March, 1896.)

The Fabian Society consists of Socialists. Members of the University interested in social reform, but unable to subscribe to the Fabian basis, may become associates and enjoy the full privileges of membership, except the right to vote and to hold office, on payment of the ordinary subscription of Two Shillings.

Officers for Session 1899-1900.

Honorary President—
President—William Boyd, M.A.
Vice-President—Mabel Atkinson.
Secretary—Stanley H. Turner, 10 Possil Road, Glasgow.
Treasurer—William M'Cutcheon.
Librarian—Thomas Rook.

Committee.

Stanley H. Turner.	|	Robert D. Bell, M.A.
George Shann.	|	Robert M'Laurin.

GLASGOW UNIVERSITY TOTAL ABSTINENCE SOCIETY.

The object of this Society is to unite the abstaining students in the University, and to promote the cause of Total Abstinence. This work it accomplishes among the students by means of lectures, sermons, etc., while, outside the University, it carries on a successful Temperance Mission Work.

*Office-Bearers for 1899-1900.**Honorary President*—Professor G. G. A. Murray, M.A.*Honorary Vice-Presidents.*

A. Cameron Corbett, M.P.	|	W. Snodgrass, M.A., M.B., C.M.
Geo. A. Gibson, M.A.	|	James Carslaw, M.A., M.B., C.M.

President—Charles A. Gourlay, M.A.

Vice-President—Charles C. Cuthbert, M.A.

Secretary—A. Lawrie, 48 Old Dumbarton Road, Overnewton.

Treasurer—D. M. M'Intyre.

Committee.

Arts—

Wylie R. M'Intyre.

George D. Turner.

T. Hodge.

David G. Hunter.

Medicine—

William H. Brown.

Daniel D. McDougall, M.A.

Robert T. Wells, M.A.

George T. Maclean, M.A.

From Queen Margaret College—Misses Fleetwood Taylor, J. M'Ilroy,
M'Lean, Auld.

GLASGOW UNIVERSITY OSSIANIC SOCIETY.

(Instituted 1828.)

The object of the Society is the discussion of subjects bearing on the language, literature, and customs of the Highlands. It meets in the Union on Saturday evenings at seven during the winter session. The business of the Society is conducted in Gaelic at every alternate meeting. Ordinary membership is open to all students, both men and women, interested in the Highlands.

Office-Bearers for Session 1899-1900.

Honorary President—Rev. Norman Macleod, D.D.

President—Neil MacColl.

Vice-President—Hugh S. Maclean.

Secretary—Dugald Carmichael.

Assistant-Secretary—Neil Maclellan.

Treasurer—William A. Gillies.

Bard—William MacPhail.

Representative to Union—Walter Shaw.

Members of Committee.

Miss Reid.

Miss Mackay.

Norman R. Mitchell.

Hector Maclean.

Neil MacInnes.

Angus J. Morrison, M.A. (*continuer*).

With a member to be elected from first year's Arts in November.

THE CHURCH OF SCOTLAND UNDERGRADUATE SOCIETY.

All undergraduate students connected with the Church of Scotland are eligible for membership. An undergraduate shall mean a student in any Faculty who has not graduated in the Faculty.

The Society meets for the discussion of literary, social, and religious topics, and for the promotion of a better understanding among its members.

*Office-Bearers for 1899-1900.**Honorary President*—The Very Rev. Principal Story, D.D., LL.D.*President*—W. W. Fulton, M.A.*Vice-President*—Alexander Cross.*Secretary*—John Marshall Pryde, Caldercruix, Airdrie.*Treasurer*—A. D. Thomson.*Committee.*

Messrs. Mitchell, Clark, Smith, Gillies, Pairman, Masterton, and Shaw.

GLASGOW UNIVERSITY FREE CHURCH STUDENTS' CELTIC SOCIETY.

This Society was instituted in 1864. All Free Church students connected with or interested in the Highlands are eligible for ordinary membership. It meets in one of the Free Church College Class-rooms every Friday evening during the Session for the discussion of various subjects, chiefly literary and political. At two of the meetings the business is conducted in Gaelic.

*Office-Bearers for 1899-1900.**Honorary President*—Professor M'Kendrick, M.D., LL.D., F.R.S.*President*—Duncan M'Gregor.*Vice-President*—John Gracie.*Secretary*—John M'Lellan.*Treasurer*—D. R. M'Kenzie.*Directors.*

D. C. Gollan.

W. S. Sutherland.

Alex. MacBean.

A. D. Kennedy.

D. D. F. M'Intyre.

GLASGOW UNIVERSITY UNITED PRESBYTERIAN STUDENTS' SOCIETY.

Honorary President—Rev. William Dickie, M.A.*President*—Thomas M. Smith.*Vice-Presidents*—Hugh Watt, W. S. Rutherford.*Secretary*—Alexander Lawrie, 14 Moray Avenue, Scotstoun.*Treasurer*—Malcolm Hutton.*Committee.*

W. R. Wiseman, David G. Hunter, Thomas Jeffrey, and two to be elected in November.

This Society meets every Saturday at 10 a.m., in the Hall of Woodlands Road U.P. Church.

The objects of the Society are the promotion of social intercourse and the furtherance of moral and intellectual culture among its members.

All Students attending the University in any Faculty, who are connected with the United Presbyterian Church, are eligible for membership, which is obtained by the payment of the annual subscription of One Shilling. Students not connected with the United Presbyterian Church may become Associates.

GLASGOW UNIVERSITY ATHLETIC CLUB.

Honorary President—Professor Adamson, LL. D.*President*—John Lunn.*Vice-President*—Professor Jones, LL. D.*Secretary and Treasurer*—Donald C. Cameron, M.A., 200 Bath Street, Glasgow.*General Committee (including Office-Bearers).*

Ernest W. Milne.

George D. Turner.

William Stratton.

Arthur Robin.

J. Anderson.

T. Richmond.

Kenneth O. Macleod.

Jos. D. Campbell.

W. B. Chapman.

*Conveners of Sub-Committees in charge of various pastimes—**Rugby Football.*—G. D. Turner, 18 Wilson Street, Hillhead.*Association Football.*—William Stratton, Elmwood, Motherwell, and The Union.*Golf.*—J. Anderson, The Union.*Tennis.*—J. D. Campbell, 142 St. Vincent Street.*Fires.*—(Not elected at date of publication.)*Swimming.*—T. Richmond, 22 Holyrood Crescent.*Cricket.*—W. B. Chapman, The Union.

The object of the Club is the promotion of all forms of Athletic exercise. The Membership is confined to present and past Students of the University. None but Members of the Club are entitled to play any game under the charge of the Sub-Committees.

The question of subscription is under the consideration of a Committee of the Club, and an announcement thereanent will be made at the beginning of the winter session.

The financial year begins in the first week of November, when the Annual General Meeting is held.

GLASGOW UNIVERSITY RIFLE CLUB.

President—The Very Rev. Principal Story, D.D., LL. D.*Vice-Presidents*—Professor Murray and Colonel James A. Reid.*Team Captain*—Robert Carswell (Captain 1st Lanark R.V.),
203 Hope Street, Glasgow.*Vice-Captain*—J. M. Campbell (Major 3rd V.B.A. and S.H.).*Secretary and Treasurer*—James C. Paterson, 203 Hope Street, Glasgow.*Students' Convener*—J. M. Huey, The Union.

Committee—T. E. Robinson (Major 1st L.R.V., retired), W. Nelson (Captain 1st L.R.V.), J. M. Huey, James Ritchie, Junr., C. S. Douglas, and H. V. Turner.

Its objects shall be to promote rifle shooting among students and ex-students of Glasgow University, and to provide the means of having Glasgow University well represented in the annual match for the Inter-University Trophy.

All students and ex-students of Glasgow University shall be eligible as Patrons and Ordinary Members. All persons officially connected with the University shall be eligible as Patrons. Both classes of Members may take part in the competitions.

All persons, eligible as above, subscribing 10s. or upwards annually, shall be *ipso facto* Patrons. The subscription for Ordinary Members shall be 5s. for ex-students, and 2s. 6d. for present students, all payable by 1st March annually. These annual subscriptions may be commuted by a present payment of £3 3s., entitling the person paying to become a Life Patron.

THE UNIVERSITY CLUB, GLASGOW, 202 BATH STREET.

The Club is instituted for the association of gentlemen connected with the universities of the United Kingdom or with foreign universities.

The following persons are eligible for admission into the Club as ordinary members:—(1) Graduates and *alumni* of any recognised university in the United Kingdom or abroad; (2) Professors, and persons holding any honorary office in connection with a university; (3) Persons who, though not possessed of any of the above qualifications, have, in the judgment of the Committee, other equivalent qualifications; and (4) Persons without University qualification, not exceeding in number one-third of the membership.

The entry-money is £3 3s., and the annual subscription for a member having a residence or place of business within five miles of Glasgow Royal Exchange, is £4 4s., and for a member having neither a residence nor place of business within that distance, £2 2s. Graduates or *alumni* of two years' standing are admitted free of entry-money, if joining within a year of graduation or leaving College.

Members of the *Senatus Academicus* and Lecturers of the University of Glasgow are admitted *ex officio* Extraordinary Members on accepting membership without entry money, and University Assistants and Demonstrators of the said University are eligible for election as members without entry money and at a restricted subscription of £2 2s. so long as they retain office.

Members joining on and after 1st July in any year pay one-half subscription for that year, and on and after 1st December members are admitted for the succeeding year, having the use of the Club during December in addition.

Committee for 1899.

James Fleming, LL.B., <i>Chairman of the Club.</i>	
Charles E. Beckett, LL.B.	Charles J. MacLean.
J. H. Nicoll, M.B., C.M.	A. G. Moore, M.A., B.Sc.
George S. Middleton, M.D.	T. M. Morrison, M.A.
Rev. John Watt, D.D.	Stuart Foulis.
Thomas Binnie, Jun., M.A.	W. R. Jack, M.D., B.Sc.
James Roy.	Andrew Rutherford, B.D.
J. J. Burnet, A.R.S.A.	Hinton S. Myers.
Alan D. Ker.	J. A. Brown.
Walter W. Blackie, B.Sc.	J. M. Munro Kerr, M.B., C.M.
Hugh Hutcheson, B.L.	George Beilby.
<i>Secretary and Treasurer</i> —Robert E. Smith, C.A., 212 West George Street, Glasgow.	

Full particulars as to membership, etc., may be obtained on application to the Secretary.

GLASGOW UNIVERSITY CLUB, LONDON.

The objects of the Club are to maintain good fellowship among its members and to promote the interests of the University of Glasgow and of higher education in connection therewith.

Graduates, and all who are or have been students of the University of Glasgow, or officially connected with it, are eligible for membership.

Office-Bearers for 1899-1900.

President—Lord Kelvin, G.C.V.O., F.R.S., D.C.L., LL.D.

Vice-Presidents—

Lord Lister, D.C.L., P.R.S.	Lord Shand, D.C.L., LL.D.
Professor Jack, LL.D.	Lord Watson, LL.D.
Canon Ainger, LL.D.	Professor David W. Finlay, M.D., F.R.C.P.
W. Q. Orchardson, Esq., R.A.	Rev. David McEwan, D.D.

Council—

Dr. Brisbane.	Dr. Seton Orr.
G. F. Deacon, Esq.	A. S. Stevenson, Esq.
Dr. C. O. Hawthorne.	J. J. Stevenson, Esq.
Dr. G. A. Heron, F.R.C.P.	John Struthers, Esq.
A. B. Kennedy, Esq., F.R.S.	Professor John M. Thomson, LL.D., F.R.S.
Professor W. Paton Ker, LL.D.	

Honorary Treasurer—Dr. Guthrie Rankin, M.R.C.P., 4 Chesham Street, Belgrave Square, S.W.

Honorary Secretaries—

Norman M. MacLehose, Esq., M.B., C.M., 13 Queen Anne Street, Cavendish Square, W.

James M. Dodds, Esq., M.A., Dover House, Whitehall, S.W.

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THE WINTER SESSION WILL BE OPENED ON THURSDAY, 19TH OCTOBER, 1899, AND THE SUMMER SESSION ON TUESDAY, 24TH APRIL, 1900.

WINTER SESSION.

<i>Senior Anatomy</i> - - - -	10.45 A.M.	} PROF. A. M. BUCHANAN, M.A., M.D., and Demonstrators.
<i>Junior Anatomy</i> - - - -	1 P.M.	
<i>Practical do.</i> - - - - 9 A.M. till 6 P.M.		
<i>Chemistry</i> - - - - -	10.45 A.M.	} PROF. J. ROBERTSON WATSON, M.A., and Assistants.
<i>Chemical Laboratory</i> - -	10 A.M. till 6 P.M.	
<i>Physics</i> - Mon., Wed., and Fri.,	9.45 A.M.—	PROF. PETER BENNETT.
<i>Zoology</i> - - - - -	12 NOON.—	PROF. G. BELL TODD, M.B.
<i>Botany</i> - - - - -	3 P.M.	} PROF. B. G. CORMACK, M.A., B.Sc.
Or as may be arranged.		
<i>Physiology</i> - - - - -	11.45 A.M.—	PROF. W. ERNEST THOMSON, M.A., M.D.
<i>Materia Medica and Therapeutics</i> -	1 P.M.—	PROF. R. BARCLAY NESS, M.A., M.B.
<i>Surgery</i> - - - - -	12 NOON.—	PROF. T. KENNEDY DALZIEL, M.B.
<i>Practice of Medicine</i> - - -	11 A.M.	} PROF. SAMSON GEMMELL, M.D., and Assistant.
<i>Midwifery and Diseases of Children</i>	2 P.M.	
Or as may be arranged.		} PROF. JOHN EDGAR, M.A., M.B., B.Sc.
<i>Laryngology</i> - - - - -	3 P.M.	
Or as may be arranged.		} JOHN MACINTYRE, M.B., F.R.S.E.
<i>Aural Surgery</i> - - - - -	4 P.M.	
Or as may be arranged.		} JAMES ERSKINE, M.A., M.B.
<i>Ophthalmic Medicine and Surgery,</i> Thursday, - - - - -	5 P.M.	
<i>Hygiene and Public Health</i> (as may be arranged) - - - - -		} T. SPENCE MEIGHAN, M.D. JOSEPH CARROLL, M.B., D.P.H. (Camb.).
<i>Public Health Laboratory</i> - - -		

Malcolm Kerr Bursary in Anatomy, Value £10. Open to Students of the Junior Anatomy Class during Session 1899-1900.

SUMMER SESSION.

<i>Anatomy</i> - - -	11 A.M. or 4.10 P.M.	<i>Zoology</i> - - -	12 NOON.
Or as may be arranged.		<i>Practical Zoology</i> - - -	1 P.M.
<i>Practical Anatomy</i> -	6 A.M. till 6 P.M.	Or as may be arranged.	
<i>Practical Chemistry</i> —		<i>Practical Materia Medica and Pharm-</i>	
<i>Demonstrations</i> 11.10 A.M. and 3 P.M.		<i>macy</i> - - -	1 P.M.
<i>Laboratory</i> - -	9 A.M. till 6 P.M.	<i>Practical Physiology</i> - - -	8 A.M.
<i>Medical Jurisprudence</i> -	12 NOON.	<i>Operative Surgery</i> (except Wed.)	
PROF. R. M. BUCHANAN, M.B.			12 NOON and 1 P.M.
<i>Physics</i> - - -	9 A.M.	<i>Aural Surgery</i> - -	Thursday, 4 P.M.
<i>Botany</i> - - -	10 A.M.	Or as may be arranged.	
<i>Practical Botany</i> -	11 A.M. till 1 P.M.	<i>Gynaecology</i> - - -	2 P.M.
<i>Ophthalmic Medicine and Surgery</i> , Monday and Thursday, 3 P.M.			
<i>Hygiene and Public Health</i> , as may be arranged.			
<i>Mental Diseases</i> {	{ Tuesdays, 11 A.M. at the College, and on Wednesday or Friday afternoons (as may be arranged) at		JOHN CARSWELL, L.R.C.P.E., L.F.P.S.G.
	{ Woodilee Asylum, Lenzie, - - - - -		

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A Calendar may be obtained from the Secretary to the Medical Faculty,

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